SHARP

SERVICE MANUAL/SERVICE-ANLEITUNG/MANUEL DE SERVICE

S88B7CDX17HBK

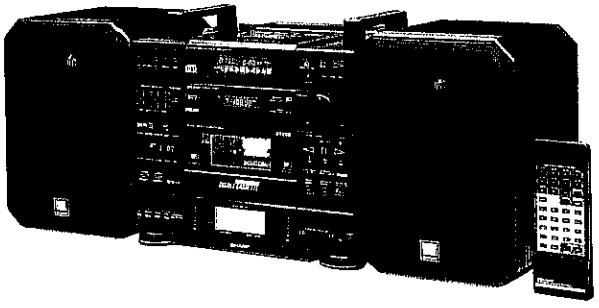

PHOTO: CD-X 17H(BK)/CP-X17H(BK)

CD-X17H/E(BK)
CP-X17H/E(BK)

COMPACT disc DIGITAL AUDIO

DOLBY SYSTEM ®

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Note for users in UK

Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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INHALTSVERZEICHNIS

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SHARP CORPORATION

DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape and compact disc out of the unit. (*1)
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Side Plate	1. Screw ..... (A)x10 2. Screw ..... (B)x4	10—1
2	Top Cabinet	1. Open the CD compartment door (*1, *2) 2. Screw ..... (C)x2	10—2
3	Bottom Plate	1. Screw ..... (D)x4	10—1
4	Disc Holder	1. Hook ..... (E)x2	10—3
5	CD Mechanism	1. Screw..... (F)x4 2. Socket ..... (G)x4	10—3
6	Front Panel	1. Screw ..... (H)x9 2. Socket..... (I)x8 3. Flat wire ..... (J)x3	10—2,11—1 11—1
	Volume PWB	1. Knob..... (K)x1 2. Nut..... (L)x1 3. Socket..... (M)x1	11—2
	Deck PWB	1. Screw ..... (N)x4	11—3
	Headphones PWB	1. Screw ..... (O)x2	11—3
	Level Meter PWB	1. Screw..... (P)x2	11—3
	Power PWB	1. Screw ..... (Q)x2	11—2
7	Tape Mechanism	1. Screw ..... (R)x4	11—3
8	Timer PWB	1. Screw ..... (S)x5	11—3
9	Tuner Switch PWB	1. Screw ..... (T)x2 2. Push rivet..... (U)x2	11—4
10	CD Operation PWB	1. Screw ..... (V)x2	11—4
11	Switch PWB	1. Screw ..... (W)x2	11—4

*1 CD compartment is opened when POWER switch is turned on, FUNCTION SELECTOR switch is set to CD and OPEN/CLOSE button is pressed. If CD compartment remains closed due to blackout or trouble on the internal circuit, use a screwdriver to open CD compartment as shown in Fig. 11—5. Release the lock lever indicated by Ⓐ of CD compartment and push it forward. Then CD compartment is opened and the disc holder comes forward.

*2 Remove the top cabinet with CD compartment door lifted.

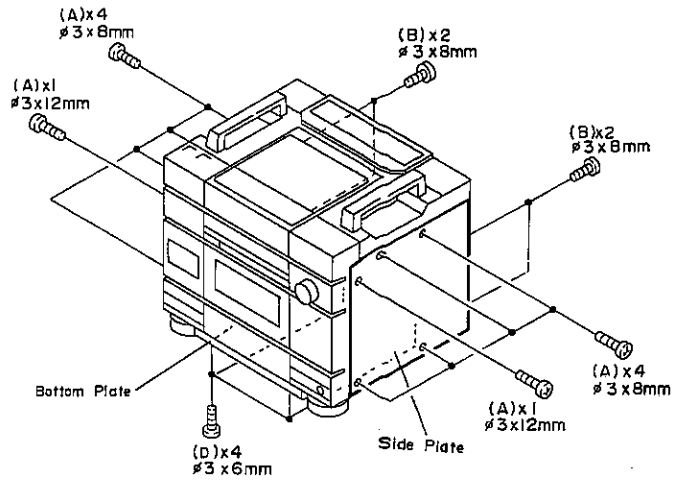


Figure 10—1

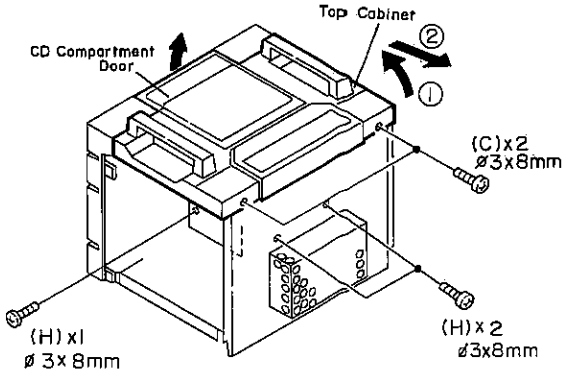


Figure 10—2

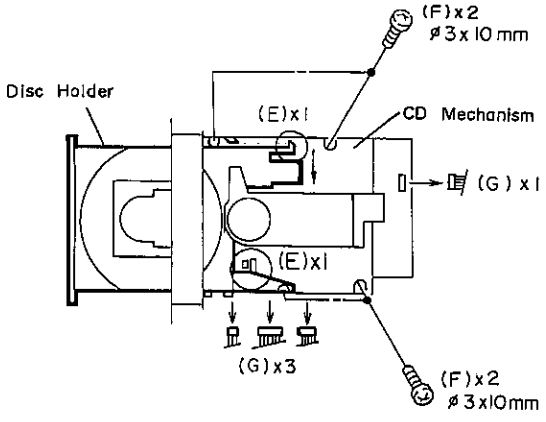


Figure 10—3

CD-X17H/E
CP-X17X/E

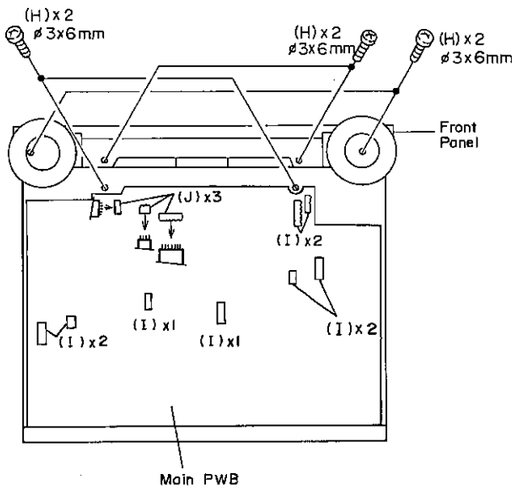


Figure 11—1

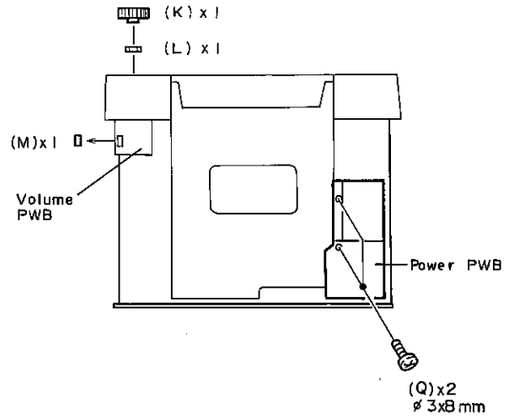


Figure 11—2

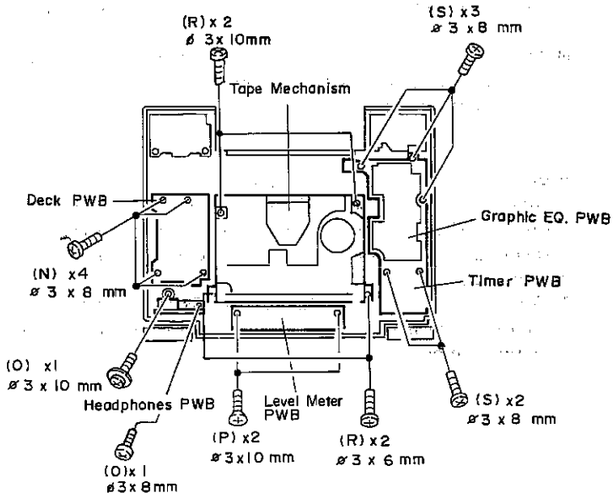


Figure 11—3

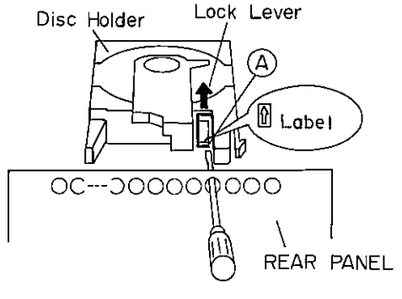


Figure 11—5

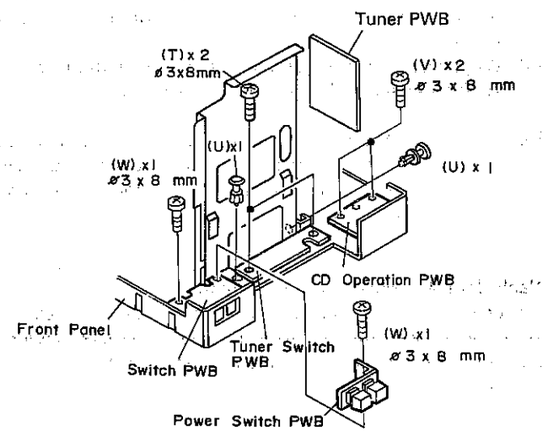


Figure 11—4

Ⓓ ZERLEGEN

Vorsichtsmassregeln Für Das Zerlegen
Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.

1. Cassettenband/Compact-Disc von der Einheit abnehmen. (*1)
2. Bevor mit dem Zerlegen des Gerätes begonnen wird, unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen.
3. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
4. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
1	Seitenwand	1. Schraube ..... (A)x10 2. Schraube ..... (B)x4	10—1
2	Obere Gehäusehälfte	1. Den CD-Fachdeckel öffen (*1, *2) 2. Schraube ..... (C)x2	10—2
3	Bodenbrett	1. Schraube ..... (D)x4	10—1
4	Dischalter	1. Haken..... (E)x2	10—3
5	CD-Laufwerkblock	1. Schraube ..... (F)x4 2. Buchse..... (G)x4	10—3
6	Frontplatte	1. Schraube ..... (H)x9 2. Buchse ..... (I)x8 3. Flachdraht..... (J)x3	10—2,11—1 11—1
	Lautstärke-Leiterplatte	1. Knopf..... (K)x1 2. Mutter ..... (L)x1 3. Buchse ..... (M)x1	11—2
	Deck-Leiterplatte	1. Schraube..... (N)x4	11—3
	Kopfhörer-Leiterplatte	1. Schraube..... (O)x2	11—3
	Klangpegelmesser Leiterplatte	1. Schraube ..... (P)x2	11—3
	Leistungs-Leiterplatte	1. Schraube..... (Q)x2	11—2
7	Band-Laufwerk	1. Schraube ..... (R)x4	11—3
8	Zeitschaltuhr-Leiterplatte	1. Schraube ..... (S)x5	11—3
9	Tunerschalter-Leiterplatte	1. Schraube ..... (T)x2 2. Drückniet..... (U)x2	11—4
10	CD Betrieb-Leiterplatte	1. Schraube..... (V)x2	11—4
11	Schalter-Leiterplatte	1. Schraube ..... (W)x2	11—4

*1 Wenn der POWER-Schalter eingeschaltet, der FUNCTION SELECTOR-Schalter auf CD eingestellt und die OPEN/CLOSE-Taste gedrückt wird, wird das CD-Fach geöffnet. Wenn das CD-Fach wegen des Stromausfalls oder der Beschädigung der internen Schaltung geschlossen beleibt, das CD-Fach mit einem Schraubenzieher öffnen, siehe Abb. 11—5. Den durch Ⓐ angezeigten Arretierhebel des CD-Fachs auslösen und nach vorn drücken. Dann wird das CD-Fach geöffnet, und der Disc-Halter kommt hervor.

*2 Das Gehäuseoberteil mit gehobenem CD-Fachdeckel entfernen.

Ⓕ DÉMONTAGE

Précautions pour le démontage
Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.

1. Enlever la cassette/compact disc de l'unité. (*1)
2. S'assurer de retirer la fiche d'alimentation secteur de la prise murale avant de démarrer le démontage de l'appareil.
3. Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
4. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

ÉTAPE	DÉPOSEL	PROCÉDÉ	FIGURE
1	Panneau avant	1. Vis..... (A)x10 2. Vis..... (B)x4	10—1
2	Coffret supérieur	1. Ouvrir le Compartiment CD (*1, *2) 2. Vis..... (C)x2	10—2
3	Plateau de bass	1. Vis..... (D)x4	10—1
4	Porte-disque	1. Crochet ..... (E)x2	10—3
5	Mécanisme CD	1. Vis ..... (F)x4 2. Douille ..... (G)x4	10—3
6	Panneau avant	1. Vis..... (H)x9 2. Douille..... (I)x8 3. Fil Plat..... (J)x3	10—2,11—1 11—1
	PMI de volume	1. Bouton ..... (K)x1 2. Écrou..... (L)x1 3. Douille..... (M)x1	11—2
	PMI de platine	1. Vis..... (N)x4	11—3
	PMI de casque	1. Vis ..... (O)x2	11—3
	PMI de compteur de niveau	1. Vis..... (P)x2	11—3
	PMI de alimentation	1. Vis ..... (Q)x2	11—2
7	Mécanisme de platine	1. Vis..... (R)x4	11—3
8	PMI de minuterie	1. Vis..... (S)x5	11—3
9	PMI de commutateur de tuner	1. Vis..... (T)x2 2. Rivet-poussoir ..... (U)x2	11—4
10	PMI de commutation CD	1. Vis..... (V)x2	11—4
11	PMI de commutateur	1. Vis..... (W)x2	11—4

*1 Pour ouvrir le compartiment CD, mettre le commutateur POWER en marche, amener le commutateur FUNCTION SELECTOR sur CD et appuyer sur la touche OPEN/CLOSE. Lorsque l'on ne peut pas ouvrir le compartiment CD à cause de la panne d'électricité ou de la panne du circuit interne, utiliser un tournevis pour ouvrir le compartiment CD comme indiqué dans la figure 11—5. Libérer le levier de blocage indiqué par Ⓐ et le pousser en avant. Le compartiment CD peut être ouvert et le porte-disque s'avance.

*2 Enlever le coffret supérieur en laissant la porte du compartiment CD levée.

CD-X17H/E
CP-X17X/E

Ⓔ

FITTING OF DISC HOLDER

1. Turn the rack gear in the arrow direction A and the disc lever in the arrow direction B.
2. Force-fit the disc holder to the chassis.
3. Turning the rack gear in the arrow direction C lowers the disk holder, so that the disc holder is fixed.

REPLACEMENT OF PICKUP

When replacing the pickup, refer to "Cares when Handling Pickup Assembly".

(a) After removing the CD mechanism according to the disassembling procedure, remove the screws in order of 1, 2 and 3, and replace the pickup.
(b) Fit a new pickup in reverse order of disassembling. After fitting, lock it with the screw 2.
(c) Connect the connector or lead wire as it was.
(d) The laser power adjustment is not necessary owing to improvement of performance of pickup.

Note: When replacing the pickup do not apply force to the turntable of spin motor. Otherwise, the height of main chassis and turntable may be varied.

After replacing the pickup

This new mechanism has been newly designed to enhance remarkably its performance as compared to the former ones, so that there is no need to adjust pickup posture.

* After mounting the pickup, apply voltage to the slide motor (M2), and ascertain that it runs at DC 1.5V or less.

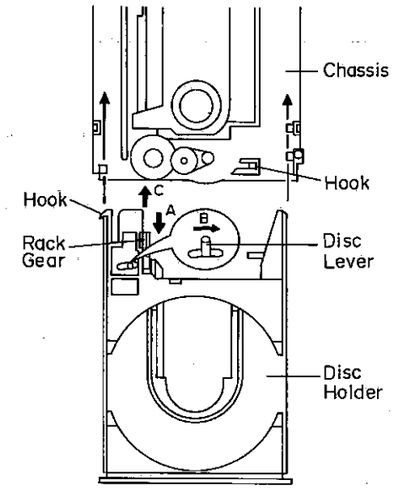


Figure 13—1

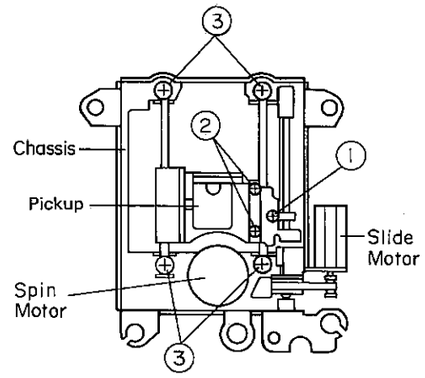


Figure 13—2

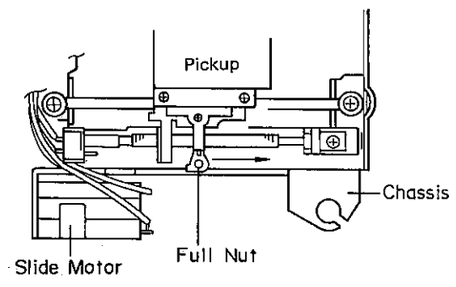


Figure 13—3

Ⓓ

ANBRINGEN DES DISCHALTERS

1. Die Zahnstange in die Pfeilrichtung A, und den Dischebel in die Pfeilrichtung B drehen.
2. Den Dischalter in das Gehäuse einpressen.
3. Durch Drehen der Zahnstange in die Pfeilrichtung C wird der Dischalter abgesenkt und festgestellt.

AUSWECHSELN DES ABTASTERS

Beim Auswechseln des Abtasters auf den Abschnitt "Vorsichtsmaßnahmen beim Umgang mit der Abtastereinheit" Bezug nehmen.

(a) Nach dem Entfernen des CD-Mechanismus (nach dem Ausbauverfahren) werden die Schrauben in der Reihenfolge 1, 2, 3 losgedreht und danach der Abtaster ausgewechselt.
(b) Einen neuen Abtaster in der umgekehrten Reihenfolge zum Ausbau einsetzen. Nach dem Einsetzen des Abtasters muß dieser mit der Schraube 2 befestigt werden.
(c) Eine Nachjustierung des Laserstrahls ist nicht erforderlich, da der Abtaster bereits werkseitig optimal eingestellt wurde.
(d) Wegen der Verbesserung der Abstasterleistung ist die Laserleistungseinstellung nicht erforderlich.

Hinweis: Beim Auswechseln des Abtasters keinen Druck auf den Drehteller des Spinmotors ausüben. Die Höhe des Hauptgehäuses und des Drehtellers kann sich dadurch verändert.

Nach dem Auswechseln des Abtasters

Dieser neue Mechanismus wurde entwickelt, um seine Leistung, verglichen mit seinen Vorgängern, bemerkenswert zu steigern. Dadurch ist keine Nachstellung am Abstaster mehr erforderlich.

* Nach dem anbringen des Abtasters Spannung an den Gleitmoter (M2) anlegen und sicherstellen, daß er bei 1,5V Gleichspannung oder weniger läuft.

Ⓕ

FIXATION DU PORTE-DISQUE

1. Tourner l'engrenage à crémaillèr dans le sens indiqué par la flèche A et déplacer à fond le levier dans le sens de la flèche B.
2. Fixer le porte-disque au châssis en enfonçant complètement celui-là.
3. Le fait de tourner l'engrenage à crémaillère dans le sens de la flèche C baisse le dispositif de fixation, immobilisant ainsi le porte-disque.

REMPLACEMENT DU PORTE-LASER

Pour le remplacement du porte-laser, se reporter à "Précaution lors de la manipulation du porte-laser".

(a) Après avoir enlevé le mécanisme CD suivant le procédé de démontage, retirer les vis dans l'ordre 1, 2 et 3, et remplacer le porte-laser.
(b) Fixer un nouveau porte-laser en effectuant l'inverse de démontage. Puis verrouiller avec la vis 2.
(c) Brancher le connecteur ou le fil comme il l'était.
(d) L'ajustement de la puissance laser n'est plus nécessaire grâce à l'amélioration des performances du porte-laser.

Note: Lors du remplacement, ne pas forcer le plateau du moteur "spin". La hauteur du châssis et du plateau risquent de changer.

Après le remplacement du porte-laser

Ce nouveau mécanisme a été spécialement conçu pour améliorer considérablement les performances en comparaison des précédents. Il n'est donc plus nécessaire d'ajuster la position du porte-laser.

* Après le montage du porte-laser, appliquer une tension au moteur de glissement (M2) et vérifier que ce moteur fonctionne à moins de 1,5V.

CD-X17H/E
CP-X17H/E

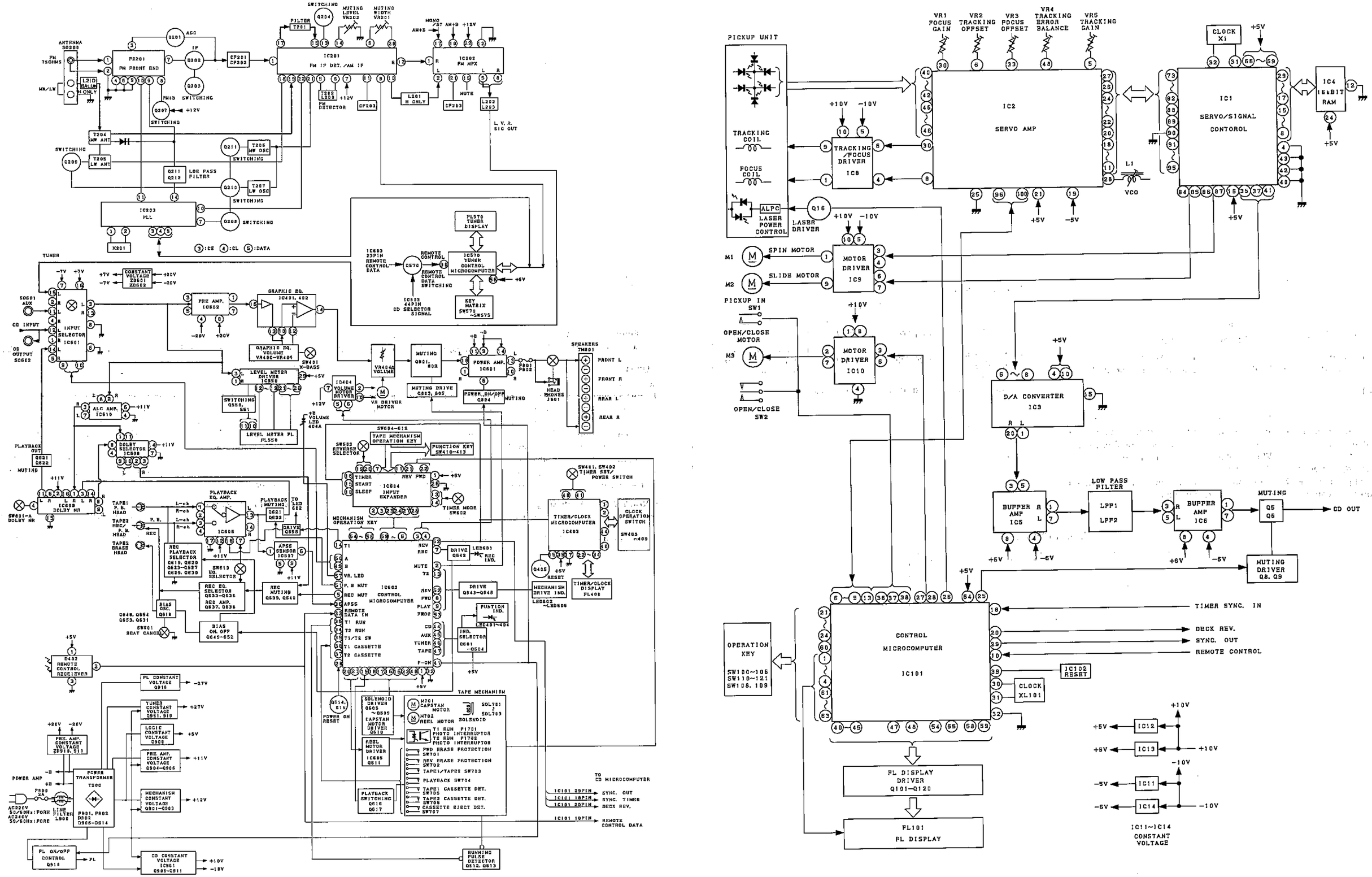


Figure 15 BLOCK DIAGRAM

CD-X17H/E
CP-X17H/E

Ⓔ ADJUSTMENT

As for preparation for adjustment, adjusting method and replacement of pickup refer to the relevant explanation in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

TUNER SECTION

fL: Low-range frequency
fH: High range frequency

· AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,620 kHz	T201	*1
MW Band Coverage	—	522 kHz	T206 (fL): 1.1 ± 0.1V	*2
MW Tracking	603 kHz	603 kHz	T204 (fL)	*1
	1,404 kHz	1,404 kHz	TC201 (fH)	
LW Band Coverage	—	153 kHz	T207 (fL): 1.5 ± 0.1V	*2
LW Tracking	162 kHz	162 kHz	T205 (fL)	*1
	261 kHz	261 kHz	TC202 (fH)	

*1, Input: Antenna
Output: Pin 12 of IC201

*2, Input: Antenna
Output: Collector of Q212

· FM

Note:

1: Description of the "FM IF Adjustment: is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

· Detection/Distortion

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
99.00 MHz	99.00 MHz	T202	Input: Antenna Output: TP201
99.00 MHz (60 dB)	99.00 MHz	T203*	Input: Antenna Output: Speaker Terminal

* Adjust the T202 so that voltmeter reads 0 ± 50 mV.

· FM Auto Stop Level

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
99.00 MHz (27 dB)	99.00 MHz	VR202	Input: Antenna Output: Speaker terminal

* Adjust so that an output signal appears.

· Muting Width

Signal generator: 1 kHz, 40 kHz dev. FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
99.027 MHz (60 dB)	99.00 MHz	VR201	Input: Antenna Output: Speaker Terminal

* Adjust so that an output signal disappears.

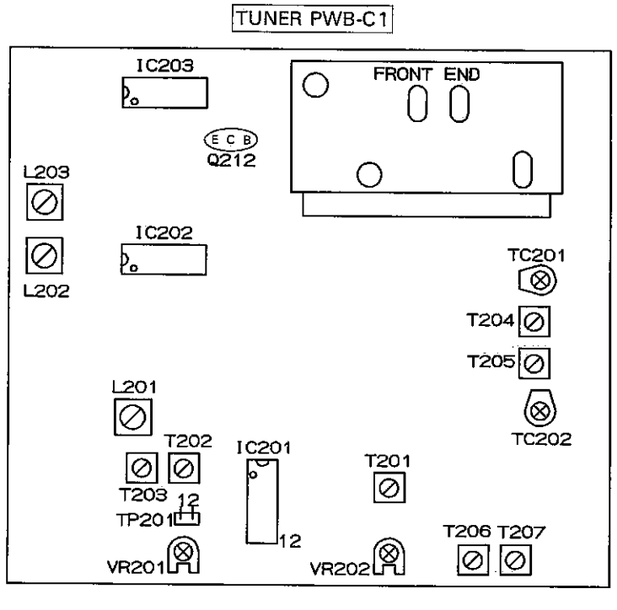


Figure 17 ADJUSTMENT POINTS

Ⓓ EINSTELLUNG

Als Vorbereitung für die Einstellung, das Einstellverfahren und das Auswechseln des Abtasters auf die entsprechenden Erklärungen in der Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" Bezug nehmen.

TUNER-TEIL

fL: Niedriger Frequenzbereich
fH: Hoher Frequenzbereich

· AM, ZF/HF

Meßsender: 400 Hz, 30%, AM-Modulation

Prüfstufe	Frequenz	Frequenzanzeige	Regel-/ Einstellteile	Gerätanschluß
ZF	450 kHz	1620 kHz	T201	*1
MW-Frequenzbereich	—	522 kHz	T206 (fL): 1,1 ± 0,1V	*2
MW-Gleichlauf	603 kHz	603 kHz	T204 (fL)	*1
	1 404 kHz	1 404 kHz	TC201 (fH)	
LW-Frequenzbereich	—	153 kHz	T207 (fL): 1,5 ± 0,1V	*2
LW-Gleichlauf	162 kHz	162 kHz	T205 (fL)	*1
	261 kHz	261 kHz	TC202 (fH)	

*1, Eingabe: Antenne
Ausgabe: Stift 12 des IC201

*2, Eingabe: Antenne
Ausgabe: Kollektor des Q212

· UKW

Zur Beachtung:

1. Beschreibung der "UKW-ZF-Einstellung: ist in dieser Anleitung nicht gebracht. Weil die ZF-Spule in UKW-Eingangsstufenteil in der Fabrik schon gut eingestellt worden ist, ist es nicht erforderlich, diese an Ort und Stelle ferner einzustellen.
   Die Einstellung ist auch bei der Auswechslung der UKW-Eingangsstufeneinheit nicht benötigt.
2. Die Teile im UKW-Eingangsstufenteil sind in einer kompletten Einheit vorbereitet. Sie können jeden Teil einzeln nicht erhalten.

· Nachweis/Verzerrung

Meßsender: 1 kHz, 40 kHz Hub, UKW-Modulation

Frequenz	Frequenzanzeige	Einstellteile	Gerätanschluß
99,00 MHz	99,00 MHz	T202	Eingabe: Antenne Ausgabe: TP201
99,00 MHz (60 dB)	99,00 MHz	T203*	Eingabe: Antenne Ausgabe: Lautsprecherklemme

* Den T202 so einstellen, daß der Spannungsmesser 0 ± 50 mV anzeigt.

· UKW-Abschaltautomatikpegels

Meßsender: 1 kHz, 40 kHz Hub, UKW-Modulation

Frequenz	Frequenzanzeige	Einstellteile	Gerätanschluß
99,00 MHz (27 dB)	99,00 MHz	VR202	Eingabe: Antenne Ausgabe: Lautsprecherklemme

* So einstellen, daß ein Ausgangssignal auftritt.

· Tondämp fungsbreite

Meßsender: 1 kHz, 40 kHz Hub, UKW-Modulation

Frequenz	Frequenzanzeige	Einstellteile	Gerätanschluß
99,027 MHz (60 dB)	99,00 MHz	VR201	Eingabe: Antenne Ausgabe: Lautsprecherklemme

* So einstellen, daß ein Ausgangssignal auftritt.

Ⓕ RÉGLAGE

Pour la préparation du réglage, se reporter à la méthode de réglage et au remplacement du pick-up du Manuel de service "PROCEDES DE REGLAGE DES PRODUITS ACOUSTIQUES".

PARTIE TUNER

fL: basse fréquence
fH: haute fréquence

· FI/RF AM (PO)

Générateur de signal: 400 Hz, 30%, modulé en AM.

Etage d'essai	Fréquence	Affichage de fréquence	Organes de réglage/ajustement	Connexion des instruments
FI	450 kHz	1620 kHz	T201	*1
Couverture de gamme PO	—	522 kHz	T206 (fL): 1,1 ± 0,1V	*2
Pistage PO	603 kHz	603 kHz	T204 (fL)	*1
	1404 kHz	1404 kHz	TC201 (fH)	
Couverture de gamme PO	—	153 kHz	T207 (fL): 1,5 ± 0,1V	*2
Pistage PO	162 kHz	162 kHz	T205 (fL)	*1
	261 kHz	261 kHz	TC202 (fH)	

*1, Entrée: Antenne
Sortie: Broche 12 du IC201

*2, Entrée: Antenne
Sortie: Collecteur du Q212

· FM

Note:

1. La description du "Réglage FM IF" ne se trouve pas dans ce Manuel. Car la bobine IF dans la section de l'extrémité avant FM a été si bien réglée à l'usine qu'elle ne nécessite un réglage ultérieur. Il n'est donc pas nécessaire de la régler même si l'on remplace l'ensemble de l'extrémité avant FM.
2. Les pièces utilisées dans la section de l'extémité avant FM sont préparées dans une unité complète, aussi on ne peut pas les obtenir séparément.

· Détection/Distorsion

Générateur de signal: 1 kHz, déviation de 40 kHz modulé en FM.

Fréquence	Affichage de fréquence	Organes de réglage	Connexion des instruments
99,00 MHz	99,00 MHz	T202	Entrée: Antenne Sortie: TP201
99,00 MHz (60 dB)	99,00 MHz	T203*	Entrée: Antenne Sortie: Borne du haut-parleur

* Régler T202 de sorte que le voltmètre indique 0 ± 50 mV.

· Niveau d'arrêt automatique FM

Générateur de signal: 1 kHz, déviation de 40 kHz modulé en FM.

Fréquence	Affichage de fréquence	Organes de réglage	Connexion des instruments
99,00 MHz (27 dB)	99,00 MHz	VR202	Entrée: Antenne Sortie: Borne du haut-parleur

* Régler pour qu'un signal de sorte disparaisse.

· Largeur de rég. sil.

Générateur de signal: 1 kHz, déviation de 40 kHz modulé en FM.

Fréquence	Affichage de fréquence	Organes de réglage	Connexion des instruments
99,027 MHz (60 dB)	99,00 MHz	VR201	Entrée: Antenne Sortie: Borne du haut-parleur

* Régler pour qu'un signal de sortie disparaisse.

CD-X17H/E
CP-X17X/E

Ⓔ ADJUSTMENT

MECHANISM SECTION

· Driving Force check

Torque Meter	Specified value
Play: TW-2412	Over 170 g

· Torque Check

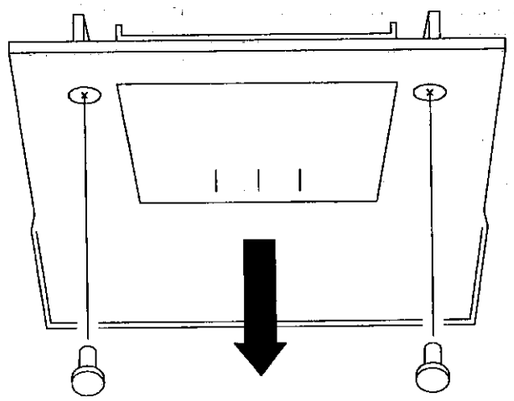
Torque Meter	Specified value	
	Tape 1	Tape 2
Play: TW-2111	35 to 60 g.cm	30 to 60 g.cm
Reverse play: TW-2121	35 to 60 g.cm	30 to 60 g.cm
Fast forward: TW-2231	85 to 170 g.cm	85 to 170 g.cm
Rewind: TW-2231	85 to 170 g.cm	85 to 170 g.cm

· Head Azimuth

Test Tape	Instrument Connection
MTT-114	Speaker terminal (Load resistance: 8 ohms)

· Tape Speed

	Test Tape	Adjusting Point	Specified value	Instrument Connection
Normal speed	MTT-111	—	3,000 ± 30 Hz	Speaker terminal (Load resistance: 8 ohms)



Remove the push rivets by pushing them from the inside of Cassette holder, and remove the Cassette holder from its lower part.

Figure 19—1 REMOVAL OF CASSETTE HOLDER

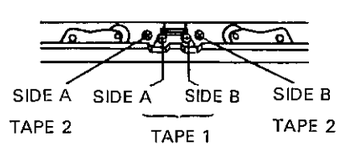


Figure 19—2 AZIMUTH POINTS

TAPE SECTION

Position of each switch or control	
Volume	Max
Beat cancel	A
Graphic equalizer	Center
Function	Tape

· Bias Oscillation Frequency

	Specified value
Beat cancel	A: 100 ± 5 kHz B: +3.5 ± 1 kHz for A

· Bias Current

Adjusting Point	Specified value	Instrument Connection
L: VR601 R: VR602	Normal: 54 mV	L: TP602 (R693) R: TP603 (R694)

· Erase Current check

	Specified value
Resistor for measurement: 1 ohm (R601A)	70 ± 20 mV

· Playback Amplifier Sensitivity check

Test Tape	Adjusting point	Specified value	Instrument Connection
MTT-118	L: VR603 R: VR604	550 mV ± 0.5 dB	L: TP601, ① R: TP601, ③

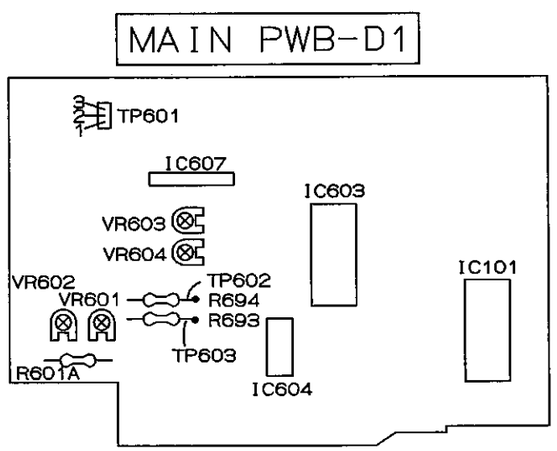


Figure 19—3 ADJUSTMENT POINTS

Ⓓ EINSTELLUNG

MECHANISMUS-TEIL

· Überprüfung der Antriebskraft

Drehmomentmesser	Vorgeschriebener Wert
Wiedergabe: TW-2412	Über 170 g

· Überprüfung des Drehmoments

Drehmomentmesser	Vorgeschriebener Wert	
	Band 1	Band 2
Wiedergabe: TW-2111	35 - 60 g.cm	30 - 60 g.cm
Rucklauf-Wiedergabe: TW-2121	35 - 60 g.cm	30 - 60 g.cm
Schnellvorlauf: TW-2231	85 - 170 g.cm	85 - 170 g.cm
Rückspulung: TW-2231	85 - 170 g.cm	85 - 170 g.cm

· Kopfazimut

Testband	Instrumentenanschluß
MTT-114	Lautsprecherklemme (Belastungswiderstand: 8 Ohm)

· Bandgeschwindigkeit

	Testband	Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
Normale Geschwindigkeit	MTT-111	—	3 000 ± 30 Hz	Lautsprecherklemme (Belastungswiderstand: 8 Ohm)

BAND-TEIL

Stellung jedes Schalters oder Stellers	
Lautstärke	Max
Schwebungsunterdrückungsschalter	A
Frequenzgangentzerrer	Mitte
Funktion	Band

· Überprüfung der Vormagnetisierungs-Schwingungsfrequenz

	Vorgeschriebener Wert
Unterdrückung von Interferenzpfeifen	A: 100 ± 5 kHz B: +3,5 ± 1 kHz für A

· Vormagnetisierungsstroms

Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
L: VR601 R: VR602	Normal: 54 mV	L: TP602 (R693) R: TP603 (R694)

· Überprüfung des Löschstroms

	Vorgeschriebener Wert
Widerstand zum Messen: 1 Ohm (R601A)	70 ± 20 mV

· Überprüfung der Empfindlichkeit des Wiedergabe-Verstärkers

Testband	Ein Stellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
MTT-118	L: VR603 R: VR604	550mV ± 0,5 dB	L: TP601, ① R: TP601, ③

Ⓕ RÉGLAGE

PARTIE MECANISME

· Vérification de la force d'entraînement

Torsiomètre	Valeur spécifiée
Lecture: TW-2412	Plus de 170 g

· Vérification du couple

Torsiomètre	Valeur spécifiée	
	Bande 1	Bande 2
Lecture: TW-2111	35 à 60 g.cm	30 à 60 g.cm
Lecture dinversion: TW-2121	35 à 60 g.cm	30 à 60 g.cm
Avance rapide: TW-2231	85 à 170 g.cm	85 à 170 g.cm
Rebobinage: TW-2231	85 à 170 g.cm	85 à 170 g.cm

· Azimut de la tête

Bande d'essai	Instrument de connexion
MTT-114	Borne d'enceinte (Résistance de charge: 8 ohms)

· Vitesse de défilement

	Bande d'essai	Point de réglage	Valeur spécifiée	Instrument de connexion
Vitesse normale	MTT-111	—	3.000 ± 30 Hz	Borne d'enceinte (Résistance de charge: 8 ohms)

PARTIE MAGNETOPHONE

Position de chaque commutateur ou chaque commande	
Volume	Max
Commutateur antibattement	A
Egaliseur graphique	Centre
Fonction	Bande/Alimentation arrêt

· Vérification de fréquence d'oscillation de polarisation

	Valeur spécifiée
Antibattement	A: 100 ± 5 kHz B: +3,5 ± 1 kHz pour A

· Courant de polarisation

Point de réglage	Valeur spécifiée	Instrument de connexion
L(G): VR601 R(D): VR602	Normal: 54 mV	L: TP602 (R693) R: TP603 (R694)

· Vérification du courant d'effacement

	Valeur spécifiée
Résistance pour mesure: 1 ohm (R601A)	70 ± 20 mV

· Vérification de la sensibilité de l'amplificateur de lecture

Bande d'essai	Pointole réglage	Valeur spécifiée	Instrument de connexion
MTT-118	L: VR603 R: VR604	550 mV ± 0,5 dB	L: TP601, ① R: TP601, ③

CD-X17H/E
CP-X17X/E

Ⓔ

CD SECTION

1. Preparation for Adjustment

When adjusting, be sure to refer to Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

· Test mode of control microcomputer

Depressing the PROGRAM button and STOP/CLEAR button, turn on the power switch.

2. VCO Free-Run Frequency

Adjusting Point	Specified value	Instrument Connection
L1	4,300 kHz ± 15 kHz	Pin 63 and Pin 40 (GND) of IC1

3. Servo Unit

The procedure of adjustment differs from that stated in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

Follow the procedure stated below.

· **Focus Offset**

Adjusting Point	Specified value	Instrument Connection
VR3	0 ± 50 mV	Pin 2 and pin 1 (GND) of CNP7

· **Tracking Offset**

Adjusting Point	Specified value	Instrument Connection
VR2	0 ± 50 mV	Pin 4 and pin 1 (GND) of CNP7

· **Focus Gain**

Adjusting Point	Adjusting method	Instrument Connection
VR1	Set the same waveform for CH1 and CH2	Both ends of R72 (CH1, CH2) and pin 25 of IC2

*1: Apply sine wave (Oscillation frequency 1.0 kHz, 1.0 Vrms) as shown in Figure 21—1.

· **Tracking Gain**

Adjusting Point	Adjusting method	Instrument Connection
VR5	Set the same waveform for CH1 and CH2	Both ends of R120 (CH1, CH2) and pin 25 of IC2

*2: Apply sine wave (oscillation frequency 1.0 kHz, 1.0 Vrms) as shown in Figure 21—2.

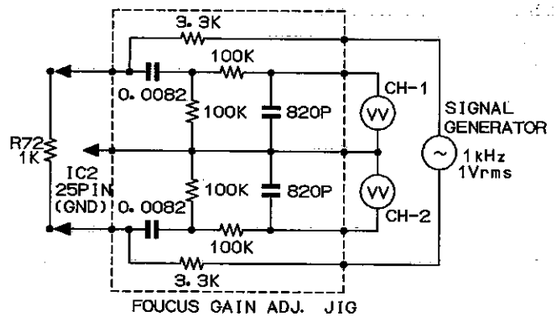


Figure 21—1

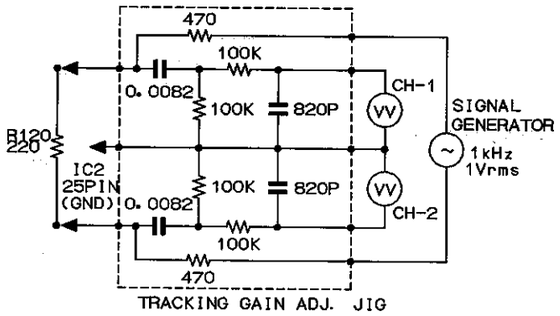


Figure 21—2

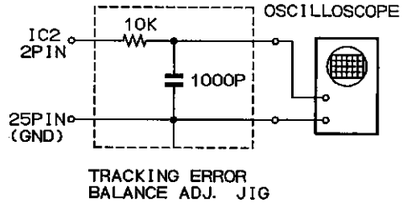


Figure 21—3

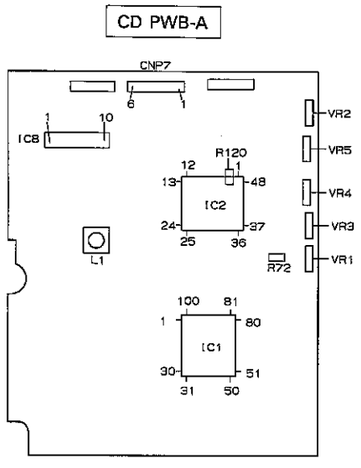


Figure 21—4 ADJUSTMENT POINTS

Ⓓ

CD-TEIL

1. Vorbereitung für die Einstellung

Beim Einstellen darauf achten, auf die Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" Bezug zu nehmen.

· Test-Betriebsart des Steuerungs-mikrocomputers

Nach dem Drücken der PROGRAM-und der STOP/CLEAR-Taste den Netzschalter einschalten.

2. Freilauffrequenz des spannungsgesteuerten Oszillators

Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
L1	4.300 kHz ± 15 kHz	Stift 63 und Stift 40 (Masse) von IC1

3. Servoeinheit

Das Einstellverfahren weicht von dem in der Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" beschriebenen Verfahren ab.

Gemäß dem folgenden Verfahren vorgehen.

· **Fokusabweichung**

Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
VR3	0 ± 50 mV	Stift 2 und Stift 1 (Masse) von CNP7

· **Abtastabweichung**

Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
VR2	0 ± 50 mV	Stift 4 und Stift 1 (Masse) von CNP7

· **Fokusverstäkung**

Einstellpunkt	Einstellverfahren	Instrumentenanschluß
VR1	Für CH1 und CH2 die gleiche Wellenform einstellen	Beide Enden von R72 (CH1, CH2) und Stift 25 (Masse) von IC2

*1: Eine Sinuswelle wie in Abbildung 21-1 dargestellt zuleiten (Schwingungsfrequenz 1,0 kHz, 1,0 Veff)

· **Abtastverstärkung**

Einstellpunkt	Einstellverfahren	Instrumentenanschluß
VR5	Für CH1 und CH2 die gleiche Wellenform einstellen	Beide Enden von R120 (CH1, CH2) und Stift 25 von IC2

*2: Eine Sinuswelle wie in Abbildung 21-2 dargestellt zuleiten (Schwingungsfrequenz 1,0 kHz, 1,0 Veff)

Ⓕ

PARTIE CD

1. Préparation du réglage

Lors du réglage, voir le Manuel de service "PROCEDES DE REGLAGE DES PRODUITS ACOUSTIQUES".

· Mode d'essai de l'ordinateur de commande

Tout en appuyant sur la touche PROGRAM et la touche STOP/CLEAR, actionner l'interrupteur marche/arrêt.

2. Fréquence à oscillation libre VCO

Point de réglage	Valeur spécifiée	Instrument de connexion
L1	4.300 kHz ± 15 kHz	Broche 63 et à la broche 40 (GND) de IC1

3. Unité d'asservissement

Cette méthode de réglage diffère de celle décrite dans le Manuel de service "PROCÉDÉS DE RÉGLAGE DES PRODUITS ACOUSTIQUES".

Effectuer le réglage comme suit.

· **Décentrage de foyer**

Point de réglage	Valeur spécifiée	Instrument de connexion
VR3	0 ± 50 mV	Broche 2 et broche 1 (GND) de CNP7

· **Décentrage de l'alignement**

Point de réglage	Valeur spécifiée	Instrument de connexion
VR2	0 ± 50 mV	Broche 4 et broche 1 (GND) de CNP7

· **Gain de foyer**

Point de réglage	Méthode de réglage	Instrument de connexion
VR1	Régler la même forme d'onde pour CH1 et CH2	Deux extrémités de R72 (CH1, CH2) et broche 25 de IC2

*1: Appliquer de l'onde sinusoïdale (fréquence d'oscillation 1,0 kHz, 1.0 Vrms) comme indiqué dans la figure 21-1.

· **Gain de l'alignement**

Point de réglage	Méthode de réglage	Instrument de connexion
VR5	Régler la même forme d'onde pour CH1 et CH2	Deux extrémités de R120 (CH1, CH2) et broche 25 de IC2

*2: Appliquer de l'onde sinusoïdale (fréquence d'oscillation 1,0 kHz, 1,0 Vrms) comme indiqué dans la figure 21-2.

Ⓔ

· **Tracking Error Balance**

Adjusting Point	Adjusting method	Instrument Connection
VR4	*3	Pin 2 and pin 25 (GND) of IC2

*3: Short-circuit the pin 4 of IC8 to the earth.
Adjust so as to obtain symmetric waveform (Fig. 23—1) when DC is 0V.

· **Check HF output**

Adjusting Point	Adjusting method	Instrument Connection
—	—	Pin 36 and pin 25 (GND) of IC2

Make sure that waveform is as shown in Figure 23—2.

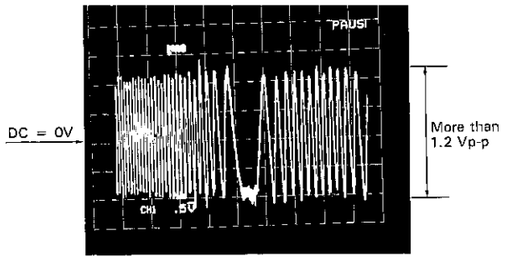


Figure 23—1

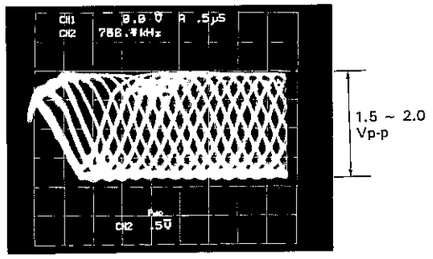


Figure 23—2

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with "⚠" (▬) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	DESCRIPTION	POSITION
SW1	Pickup in	OFF
SW2	Tray Open/Close	CLOSE
SW100~SW106	CD, Program	OFF
SW108~SW115		
SW116	CD, OPEN/CLOSE	OFF
SW117	CD, Down: ⏮	OFF
SW118	CD, PLAY: ▶	OFF
SW119	CD, Up: ⏭	OFF
SW120	CD, PAUSE: ⏸	OFF
SW121	CD, STOP/CLEAR: ■	OFF
SW150	CD, TIME	OFF
SW201	RESET	OFF
SW400	X-BASS	OFF
SW401	POWER	STAND-BY
SW402	TIMER SET	OFF
SW403	SLEEP	OFF

REF. NO.	DESCRIPTION	POSITION
SW405	CLOCK	OFF
SW406	HOUR	OFF
SW407	MIN	OFF
SW408	COUNTER RESET	OFF
SW409	COUNTER CALL	OFF
SW410	Function, AUX	OFF
SW411	Function, TUNER	OFF
SW412	Function, TAPE	OFF
SW413	Function, CD	OFF
SW570~SW575	TUNER CONTROL	OFF
SW601	BEAT CANCEL	A
SW602	TIMER MODE	OFF
SW603	REVERSE MODE	⇄
SW604	TAPE, DUBBING	OFF
SW605	TAPE, FWD PLAY: ▶	OFF
SW606	TAPE, RECORD	OFF
SW607	TAPE, FF: ⏩	OFF

REF. NO.	DESCRIPTION	POSITION
SW608	TAPE, REV PLAY: ◀	OFF
SW609	TAPE, STOP: ■	OFF
SW610	TAPE, PAUSE: ⏸	OFF
SW611	TAPE, MODE 1 ↔ 2	OFF
SW612	TAPE, REW: ⏪	OFF
SW613	TAPE 1·2 SELECTOR	NORMAL
SW701	TAPE, FWD Erase Prevention	OFF
SW702	TAPE, REV Erase Prevention	OFF
SW703	TAPE, Tape 1/Tape 2	OFF
SW704	TAPE, Play	OFF
SW705	TAPE 1, Cassette det.	OFF
SW706	TAPE 2, Cassette det.	OFF
SW707	TAPE, Eject det.	OFF
SW801A	DOLBY NR	OFF
SW801B	SURROUND	OFF

Ⓓ

· **Abtastfehlerbalance**

Einstellpunkt	Einstellverfahren	Instrumentenanschluß
VR4	*3	Stift 2 und Stift 25 (Masse) von IC2

*3 Den Stift 4 des IC8 an die Erdung kurzschließen.
So einstellen, daß man symmetrische Wellenform (Abb. 23-1) bekommt, wenn die Gleichspannung 0V ist.

· **Hochfrequenzleistung überprüfen**

Einstellpunkt	Einstellverfahren	Instrumentenanschluß
—	—	Stift 36 und Stift 25 (Masse) von IC2

Sicherstellen, daß Wellenform so ist, wie in Abb. 23-2 dargestellt.

ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

- Widerstände:
  Um die Einheiten der Widerstände unter-scheiden zu können, werden Symbole Wir K und M benutzt. Das Symbol K bedeutet 1000 Ohm und das Symbol M 1 000 Kiloohm; Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände. Außerdem sind die mit "Fusible" bezeichneten Widerstände Schmelzsicherungstypen.
- Kondensatoren:
  Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofard. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Be-zeichnung "Kapazität/Stehspannung" benutzt.
  (CH), (TH), (RH), (UJ): Temperaturkompensation
  (ML): Mylarkondensator
  (P.P.): Polypropylentyp
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffen den Teil und dem Chassis ohne Signalzuleitung gemessen.
- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.
- Die mit ⚠ (▬) bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

· **Équilibre de l'erreur d'alignement**

Point de réglage	Méthode de réglage	Instrument de connexion
VR4	*3	Broche 2 et broche 25 (GND) de IC2

*3 Relier la broche 4 de IC8 à la terre.
Effectuer l'ajustement pour obtenir une forme d'onde symétrique (Fig. 23-1) lorsque le courant continu est 0V.

· **Vérifier la sortie HF**

Point de réglage	Méthode de réglage	Instrument de connexion
—	—	Broche 36 et broche 25 (GND) de IC2

S'assurer que la forme d'onde est comme le montre la Figure 23-2.

REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

- Résistance:
  Pour différencier les unités de résistances, on utilise des symbole tels que K et M: le symbole K signifie 1000 ohms, le symbole M 1000 Kohms, et la résistance donnée sans symbole est une résistance de type ohm. En outre, celle qui est dotées de "Fusible" est de type à fusible.
- Condensateur:
  Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité".
  (CH), (RH), (TH), (UJ): Compensation de température
  (ML): Condensateur Mylar
  (P.P.): Type Polypropylène
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.
- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.
- Les pièces portant la marque ⚠ (▬) sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

CD-X17H/E
CP-X17H/E

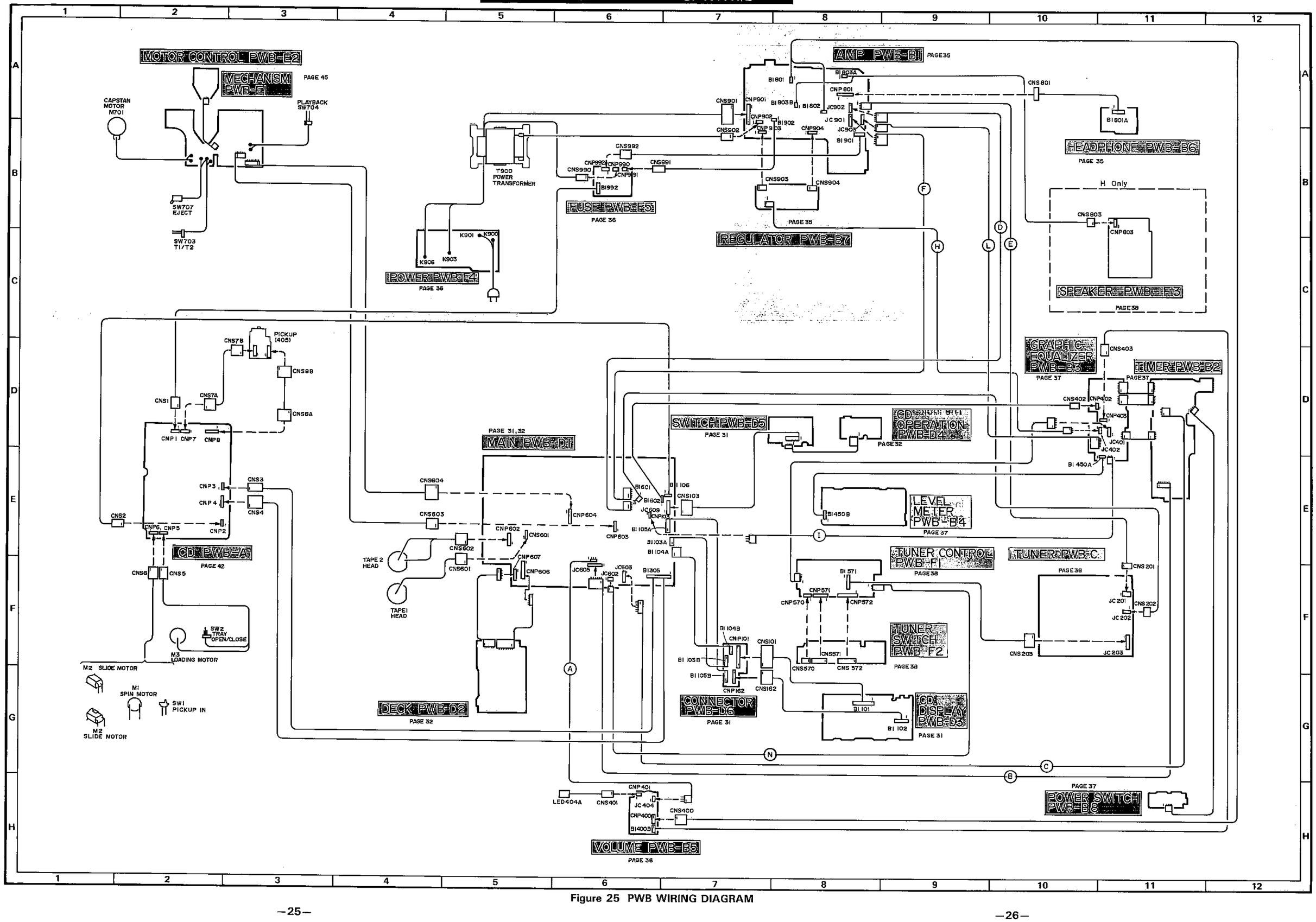
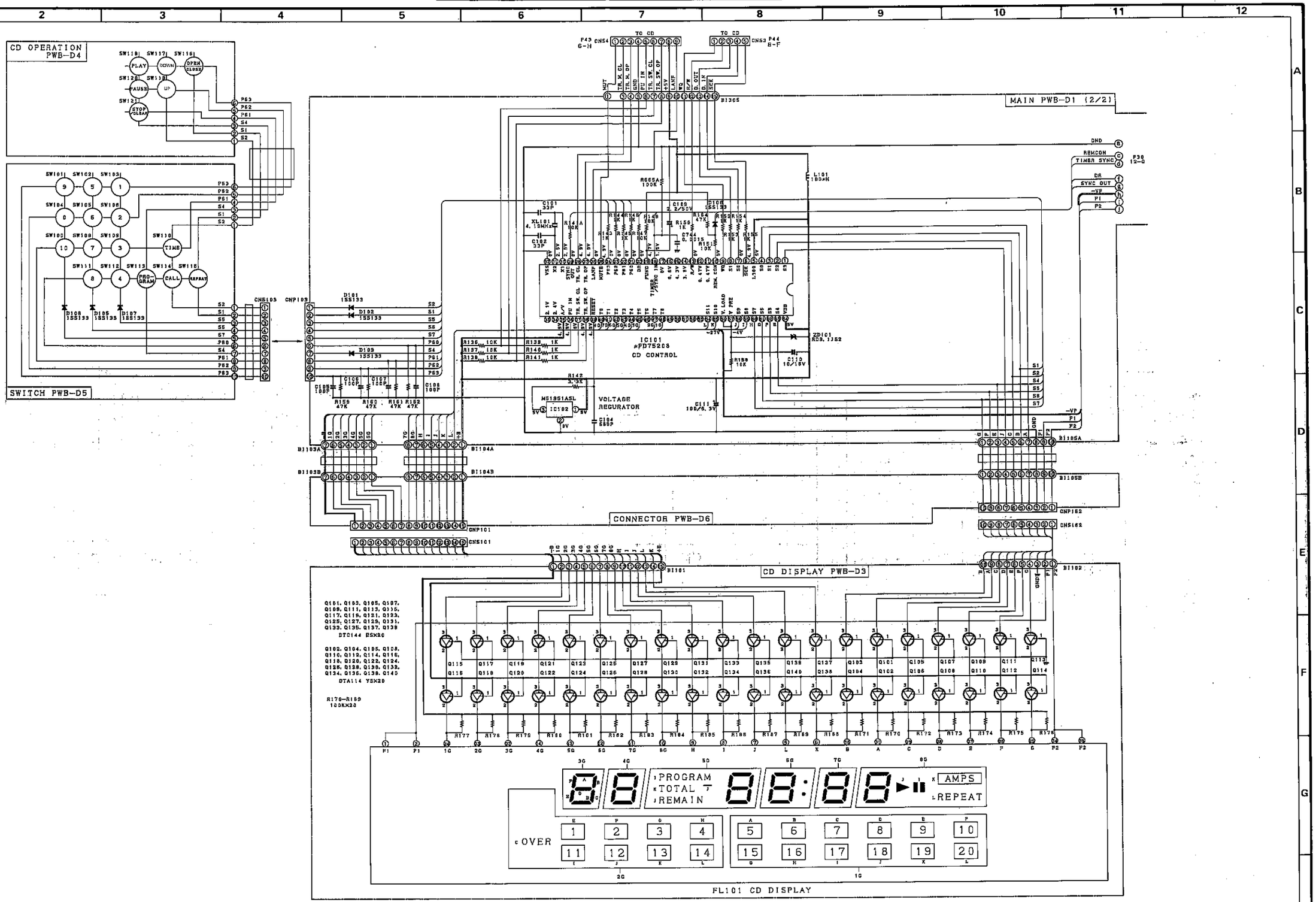


Figure 25 PWB WIRING DIAGRAM

CD-X17H/E
CP-X17X/E



· NOTES ON SCHEMATIC DIAGRAM can be found on page 23.
· ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 24.
· REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 24.

——— +B ——— –B

Figure 27 SCHEMATIC DIAGRAM (1/6)

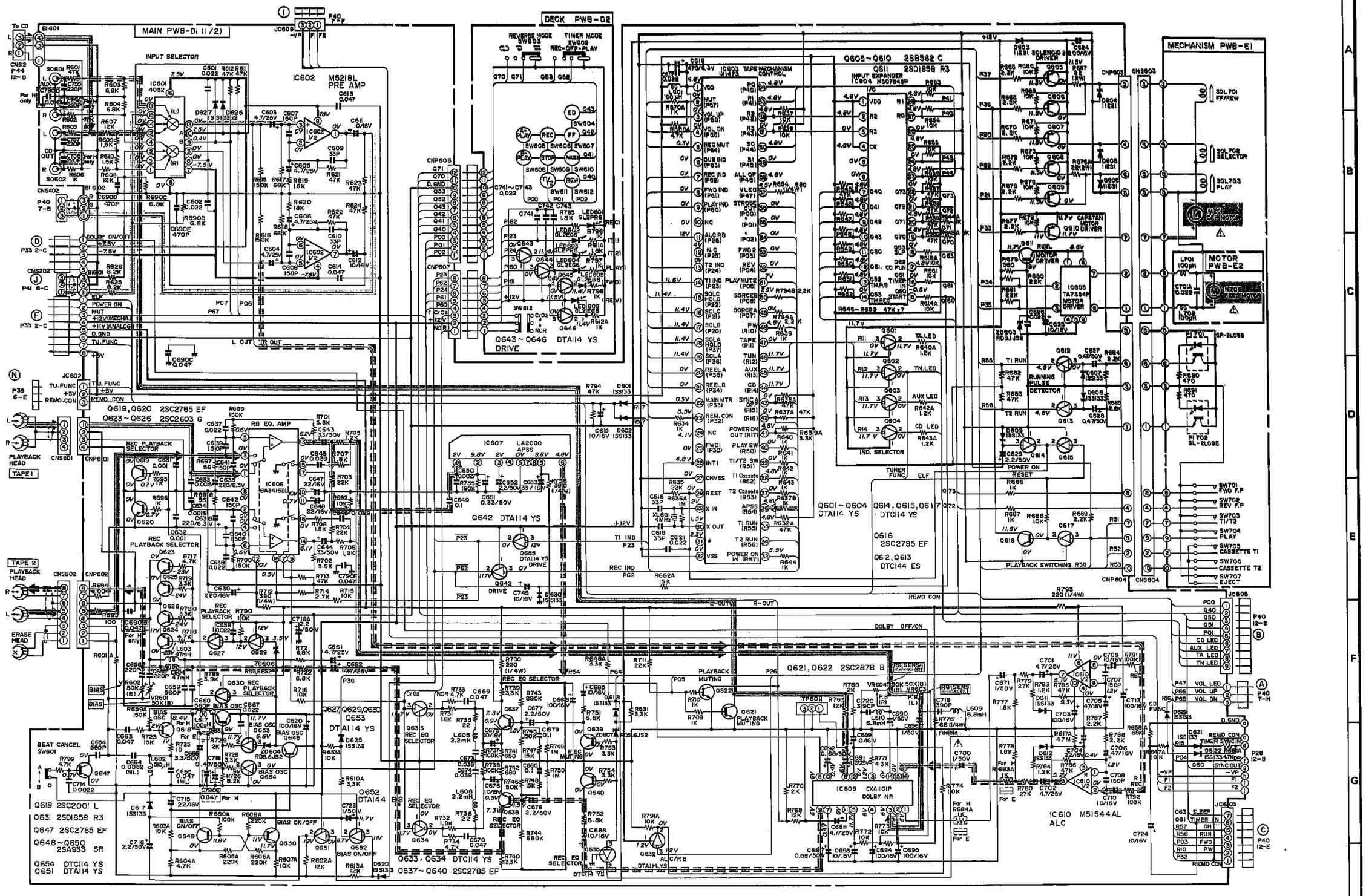


Figure 29 SCHEMATIC DIAGRAM (2/6)

CD-X17H/E
CP-X17H/E

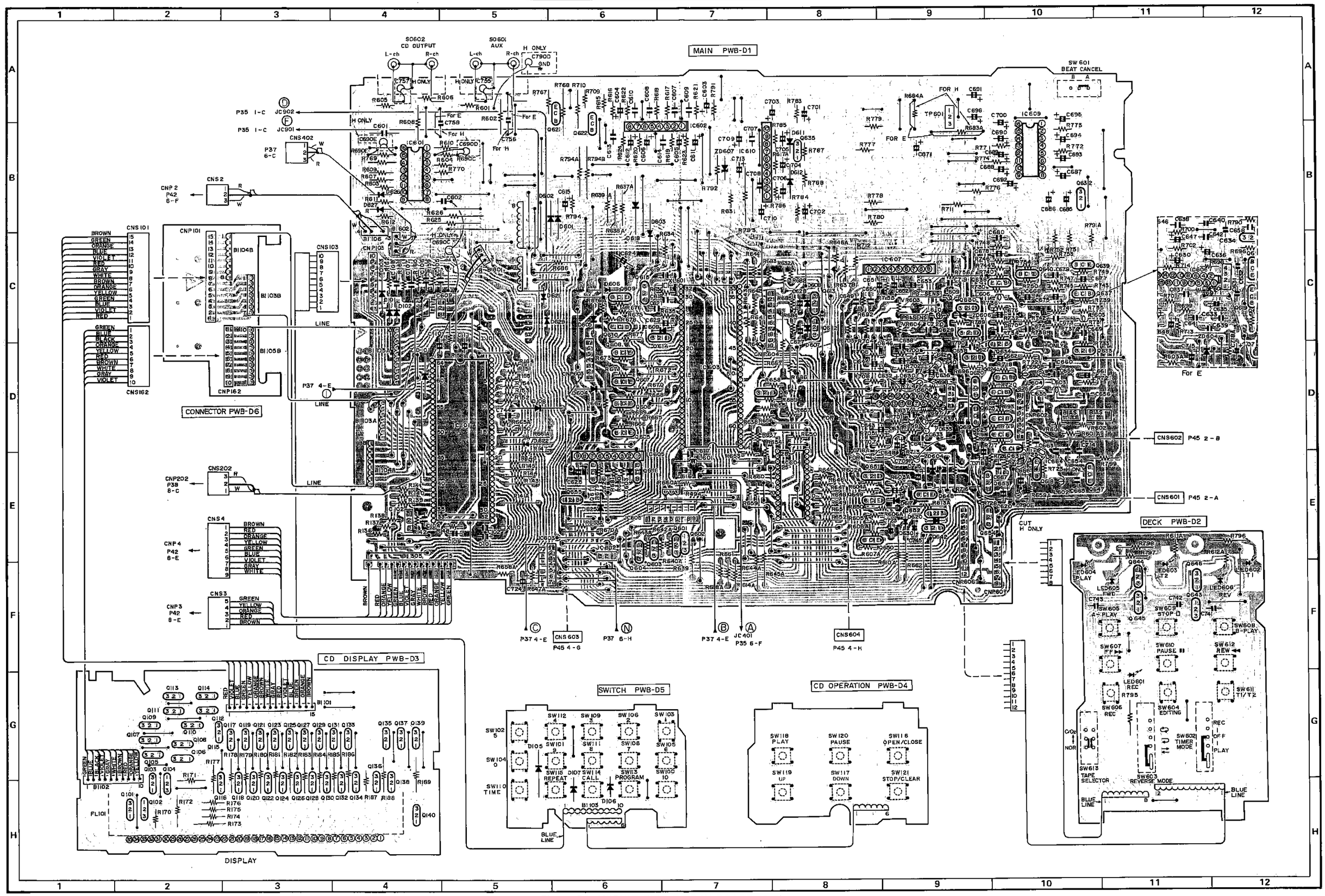


Figure 31 WIRING SIDE OF P.W.BOARD (1/5)

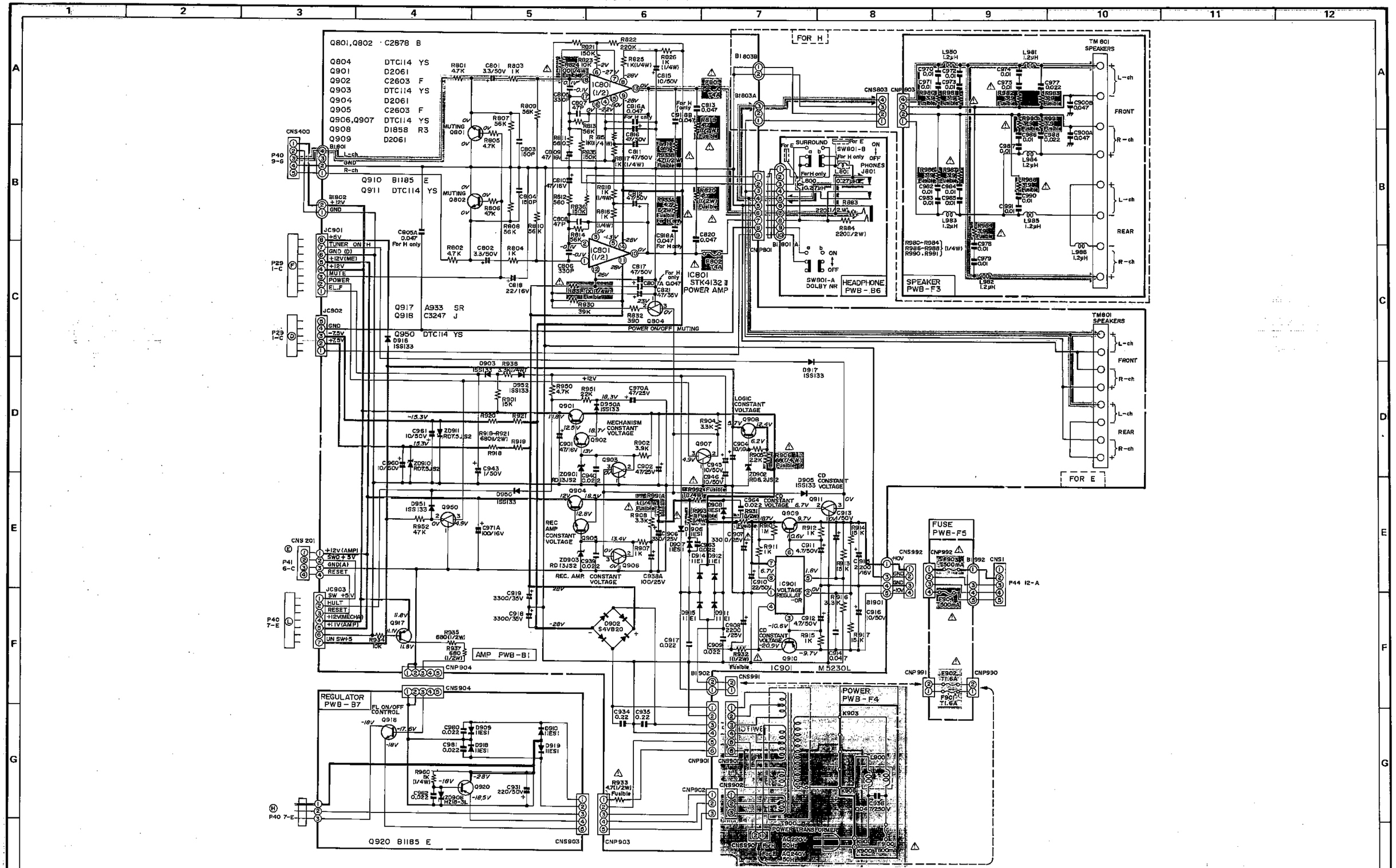


Figure 33 SCHEMATIC DIAGRAM (3/6)

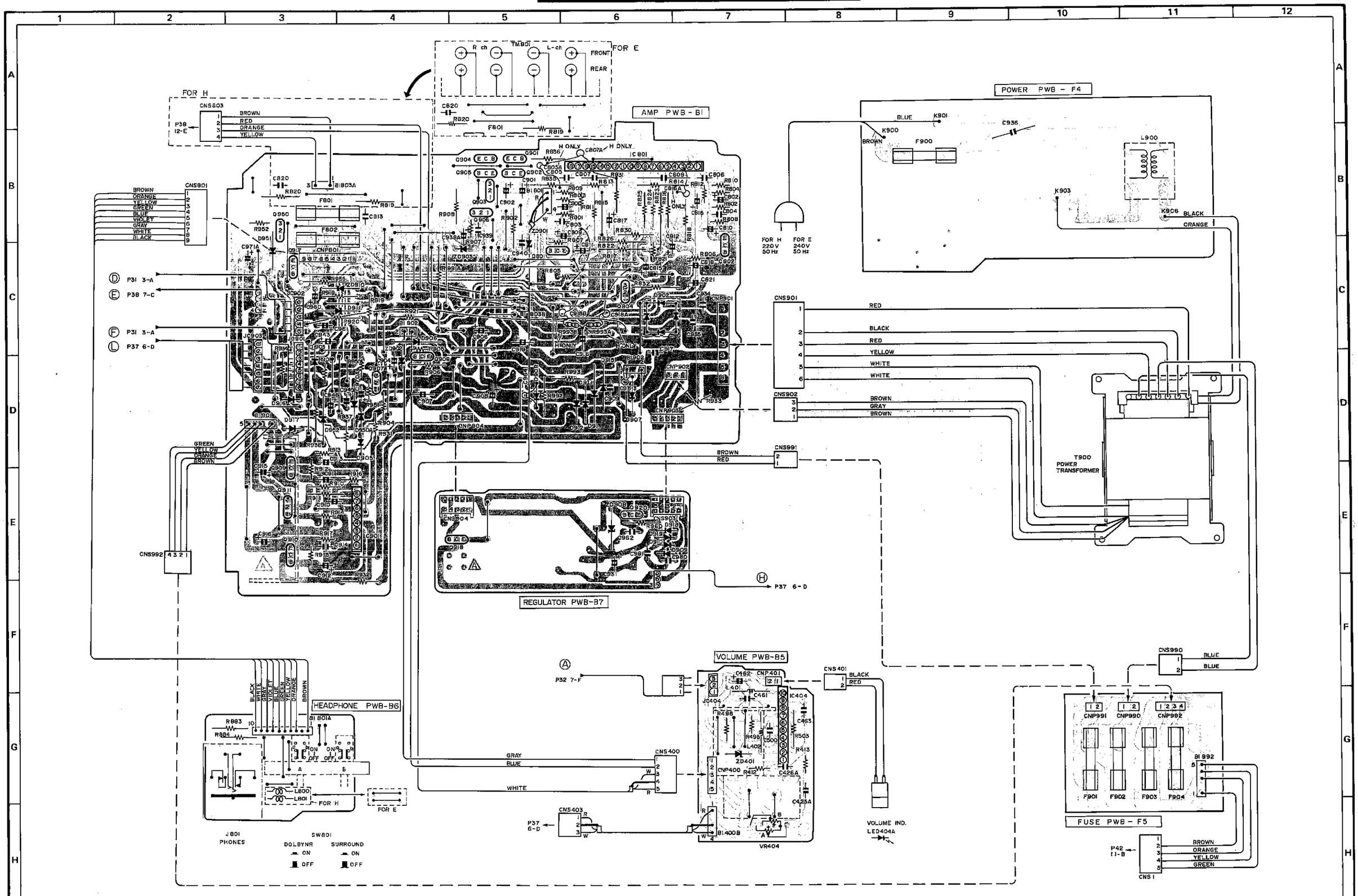
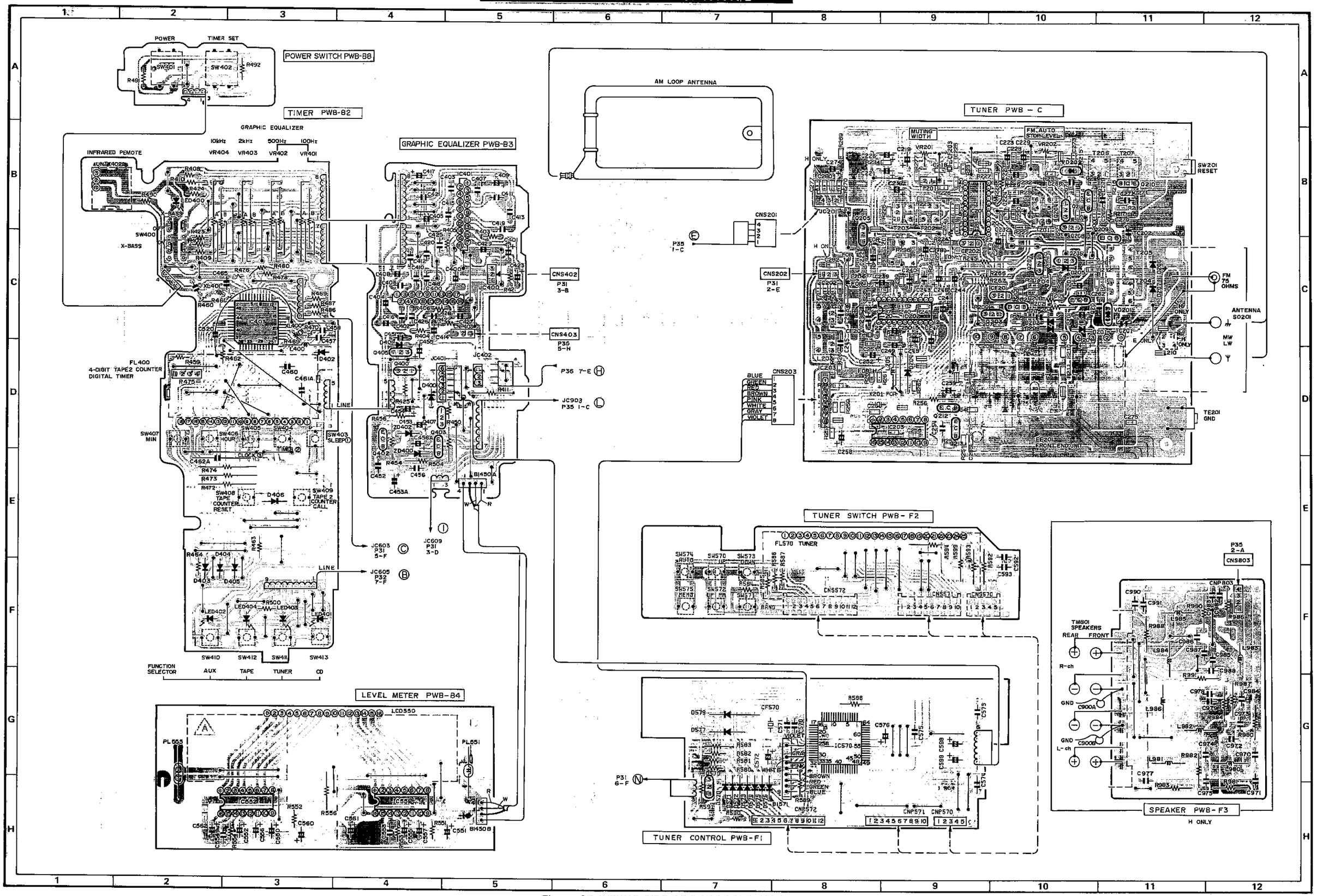


Figure 35 WIRING SIDE OF P.W.BOARD (2/5)


POWER SWITCH PWB-B8
POWER
TIMER SET
SW401
SW402
R492
R491
TIMER PWB-B2
GRAPHIC EQUALIZER
10kHz 2kHz 500Hz 100Hz
VR404 VR403 VR402 VR401
INFRARED REMOTE
JUNT402
R408
R410
R424
LED400
SW400
X-BASS
R423
R409
R480
R476
R478
R469
R467
R486
R468
R460
R461
XL400
C459
C457
C400
D402
R459
R462
C460
C461A
R475
FL400
4-DIGIT TAPE2 COUNTER
DIGITAL TIMER
SW407
MIN
SW406
HOUR
SW405
SW404
SW403
SLEEP
CLOCK
TIMER
C462A
R474
R473
R472
SW408
TAPE
COUNTER
RESET
D406
SW409
TAPE 2
COUNTER
CALL
R463
R464
D404
D403
D405
LED402
LED404
R500
LED403
LED401
SW410
SW412
SW411
SW413
FUNCTION
SELECTOR
AUX
TAPE
TUNER
CD
LINE
GRAPHIC EQUALIZER PWB-B3
C417
IC401
C407
C409
C411
C415
C413
C405
C418
C403
C425
C420
C421
C423
C412
C410
C408
C400
C406
C424
C426
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C401
C402
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C466

CD-X17H/E
CP-X17H/E

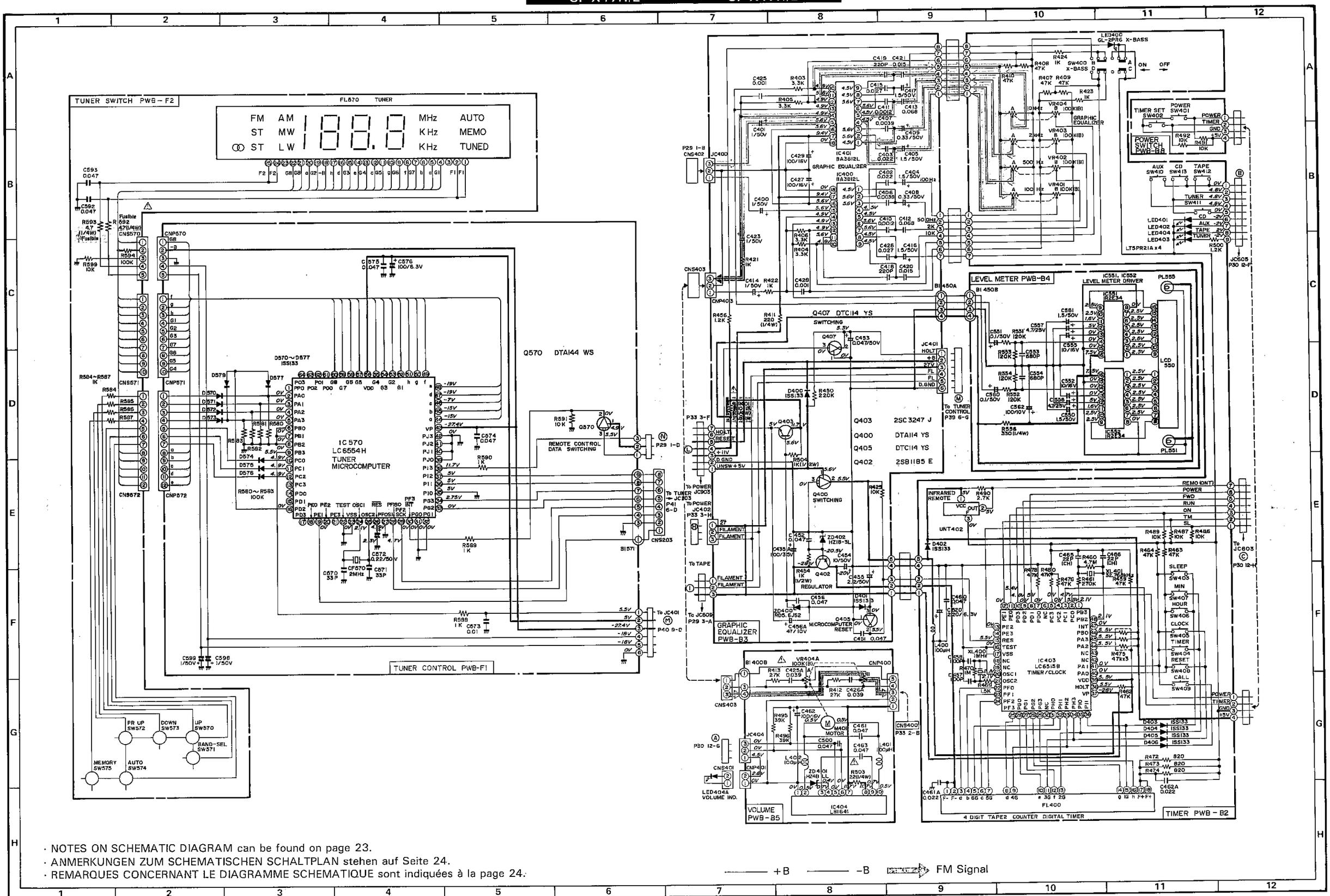


Figure 39 SCHEMATIC DIAGRAM (4/6)

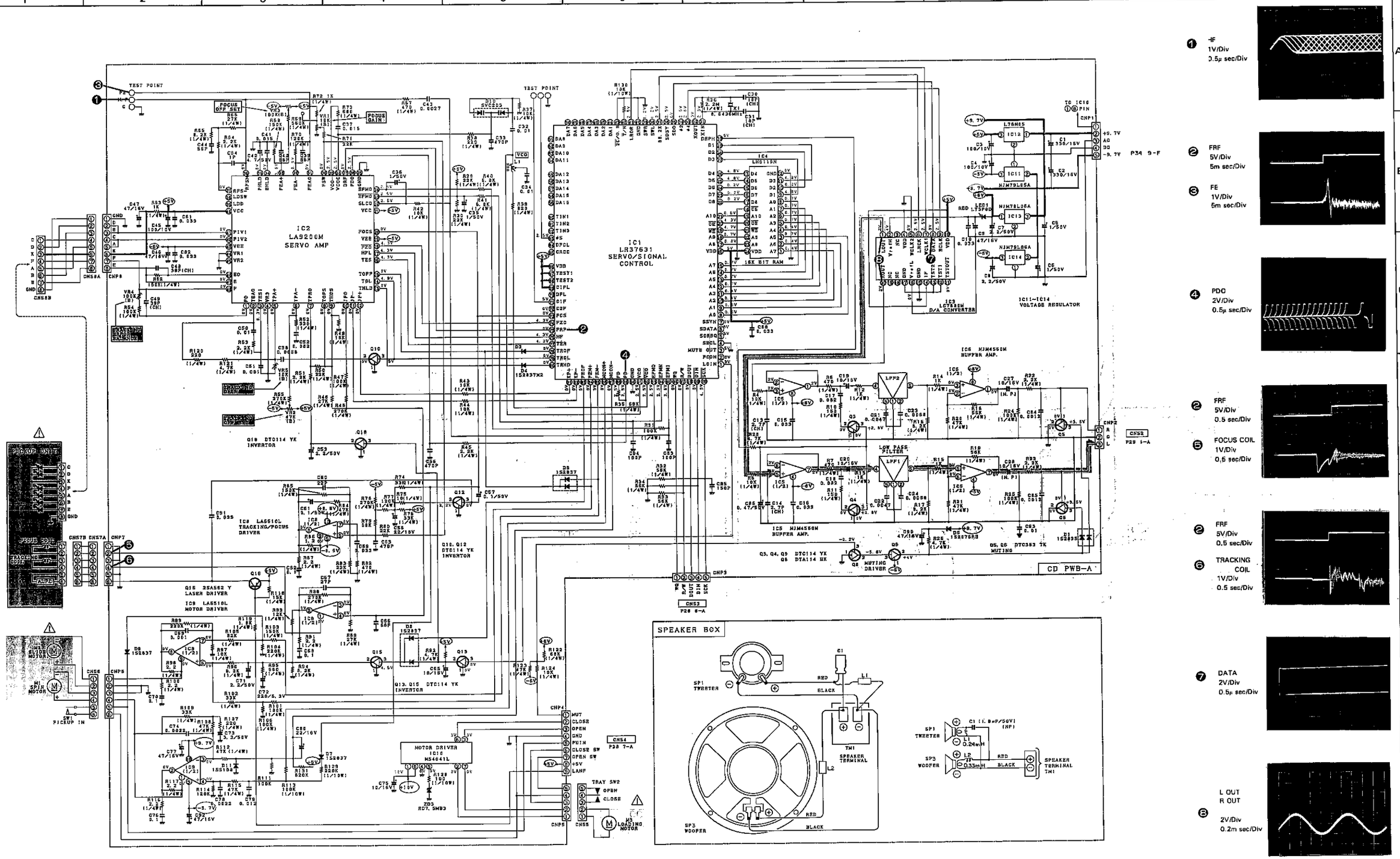
CD-X17H/E
CP-X17H/E

· NOTES ON SCHEMATIC DIAGRAM can be found on page 23.
· ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen Auf Seite 24.
· REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 24.

+B
FM Signal
AM Signal

Figure 41 SCHEMATIC DIAGRAM (5/6)

Figure 42 WIRING SIDE OF P.W.BOARD (4/5)



· NOTES ON SCHEMATIC DIAGRAM can be found on page 23.
· ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 24.
· REMARQUES CONCERNANT LE DIAGRAMME SCHEMATIQUE sont indiquées à la page 24.

——— +B ——— −B CD Signal

Figure 43 SCHEMATIC DIAGRAM (6/6)

CD-X17H/E
CP-X17H/E

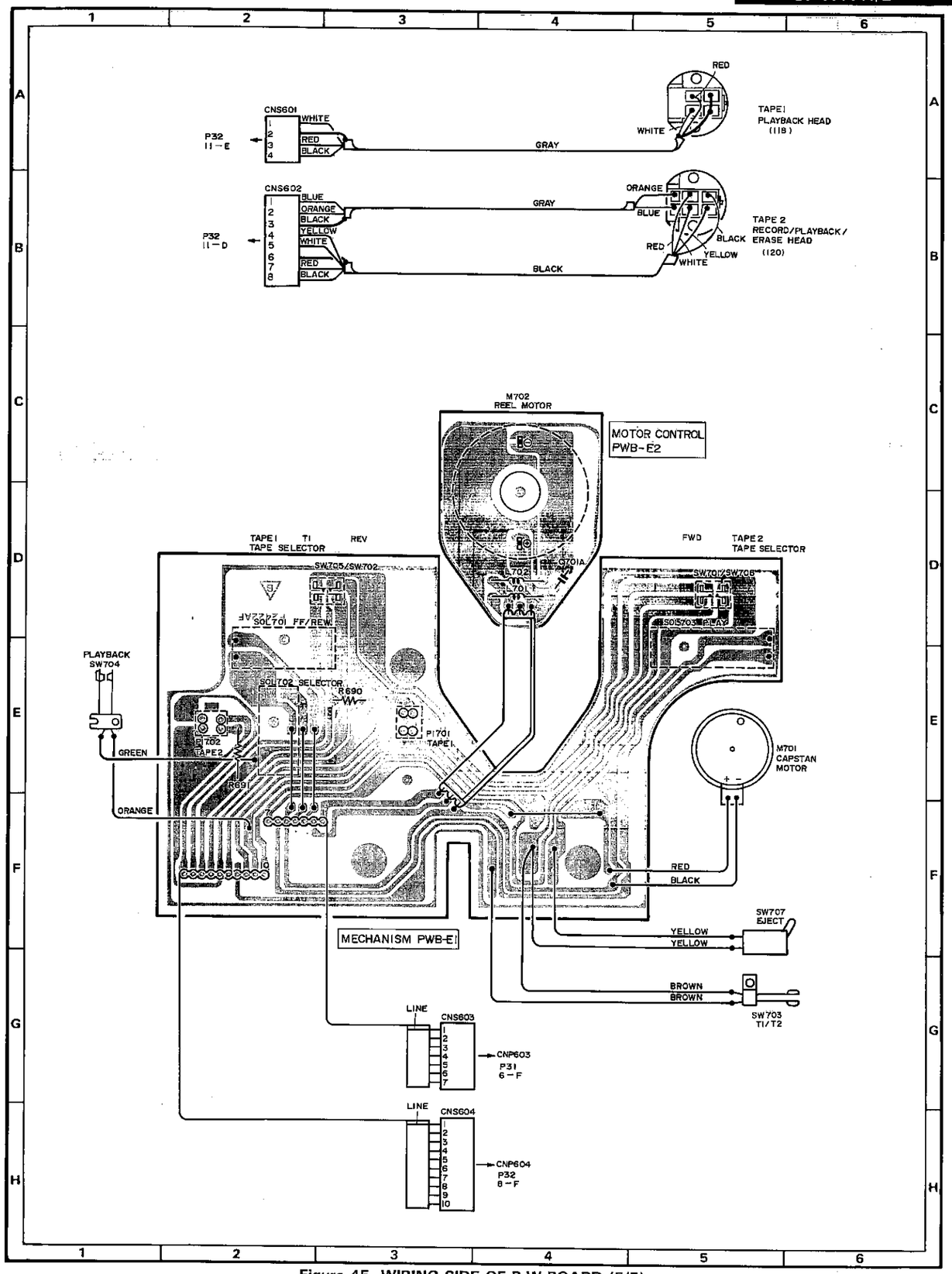


Figure 45 WIRING SIDE OF P.W.BOARD (5/5)

Ⓔ

FUNCTION TABLE OF IC

LR37631

Pin No.	Terminal Name	Input/output	Function
1	LOIN	Output	Not used
2	FCON	Output	Not used
3	MUTE	Output	Not used
4	SBCL	Input	Not used
5	SCREQ	Output	Not used
6	SDATA	Output	Not used
7	SSYN	Output	Not used
8 — 15	A0 — A7	Output	Address signal, data signal and input control signal
16	VDD	—	Power terminal
17, 18, 19	A8, A9, $\overline{WE}$	Output	Address signal, data signal and input control signal
20	OE	Output	Address signal, data signal and input control signal
21	A10	Output	Address signal, data signal and input control signal
22 — 29	D8 — D1	Output	Address signal, data signal and input control signal
30	DEPH	Output	Deemphasis control signal
31, 32	XIN, XOUT	—	Crystal oscillation terminal
33	ϕ4	—	Synchronizing signal output
34	ϕ2	—	Not used
35	SDO	Output	Synchronizing signal output
36	SDSY	Output	Not used
37	882K	—	Synchronizing signal output
38	SWL	Output	Not used
39	SWR	Output	Not used
40	GND	—	Ground
41	LROR	Output	Synchronizing signal output
42	$\overline{T}$/N	Input	Digital filtering ON/OFF switching input
43	$\overline{2C}$/OB	Output	Setting of data format of 16-bit music signal
44 — 59	DA1 — DA16	Output	Not used
60 — 62	TIN1 — TIN3	—	Test terminal
63	ϕS	Output	System clock standard output
64	DFCL	Output	Not used
65	CRCC	Output	Not used
66	VDD	—	Power terminal
67, 68	TEST1 — 2	—	Test terminal
69	C1FL	—	Test terminal
70	DFL	—	Test terminal
71, 72	C1F, C2F	Output	Error state output
73	FCS	Output	Focus servo initial writing signal
74	FZC	Input	Focus point indicating signal
75	FRF	Input	Disk reflected signal
76	HF	Input	HF envelope signal
77	TER	Input	Tracking error signal
78	TROF	Output	Tracking servo operating area switching signal
79	TRGL	Output	Tracking servo gain switching signal
80	TRHD	Output	Tracking error signal level hold signal
81, 82	KP+, KP—	Output	Kick pulse signal to move pickup
83	FEOF	Output	Tracking error signal stop
84, 85	FEM+, —	Output	Field pulse signal to move pickup
86, 87	MCON+, —	Output	Spin servo control signal
88	FD	Output	VCO clock error output
89	PD	Output	Phase comparator output
90	GND	—	Ground
91, 92	VCO, $\overline{VCO}$	Input	Clock oscillation
93	EFMO	Output	Auto-level slice
94	EFMN	Input/Output	Auto-level slice
95	EFMI	Input	Auto-level slice
96	WQ	Output	Q code output
97	R/W	Input	Q code input
98	DOUT	Output	Q code output
99	DIN	Input	Command data input
100	$\overline{SCK}$	Input	Clock input

CD-X17H/E
CP-X17X/E

Ⓓ FUNKTIONTABELLE VOM INTEGRIERTEN SCHALTKREISES

LR37631

Stift Nr.	Anschlußbezeichung	Eingang/Ausgang	Funktion
1	LOIN	Ausgang	Auschluß nicht belegt
2	FCON	Ausgang	Auschluß nicht belegt
3	MUTE	Ausgang	Auschluß nicht belegt
4	SBCL	Eingang	Auschluß nicht belegt
5	SCREQ	Ausgang	Auschluß nicht belegt
6	SDATA	Ausgang	Auschluß nicht belegt
7	SSYN	Ausgang	Auschluß nicht belegt
8 — 15	A0 — A7	Ausgang	Adressensignal, Datensignal und Eingangssteuersignal
16	VDD	—	Spannungsanschluß
17, 18, 19	A8, A9, $\overline{WE}$	Ausgang	Adressensignal, Datensignal und Eingangssteuersignal
20	OE	Ausgang	Adressensignal, Datensignal und Eingangssteuersignal
21	A10	Ausgang	Adressensignal, Datensignal und Eingangssteuersignal
22 — 29	D8 — D1	Ausgang	Adressensignal, Datensignal und Eingangssteuersignal
30	DEPH	Ausgang	Entzerrungssteuersignal
31, 32	XIN, XOUT	—	Quarzschwingungsanschluß
33	ϕ4	—	Synchronsignalausgang
34	ϕ2	—	Anschluß nicht belegt
35	SDO	Ausgang	Synchronsignalausgang
36	SDSY	Ausgang	Anschluß nicht belegt
37	882K	—	Synchronsignalausgang
38	SWL	Ausgang	Anschluß nicht belegt
39	SWR	Ausgang	Anschluß nicht belegt
40	GND	—	Masse
41	$\overline{LR}$OR	Ausgang	Synchronsignalausgang
42	$\overline{T}$/N	Eingang	Digitalfilterungs-Ein/Aus-Schalteingangssignal
43	$\overline{2C}$/OB	Ausgang	Einstellung des Datenformats für 16-Bit Musiksignal
44 — 59	DA1 — DA16	Ausgang	Anschluß nicht belegt
60 — 62	TIN1 — TIN3	—	Testanschluß
63	ϕS	Ausgang	Systemtakt-Standardausgang
64	DFCL	Ausgang	Anschluß nicht belegt
65	CRCC	Ausgang	Anschluß nicht belegt
66	VDD	—	Spannungsanschluß
67, 68	TEST1 — 2	—	Testanschluß
69	C1FL	—	Testanschluß
70	DFL	—	Testanschluß
71, 72	C1F, C2F	Ausgang	Fehlerstatus-Ausgangssignal
73	FCS	Ausgang	Fokusservo-Anfangsschreibsignal
74	FZC	Eingang	Brennpunkt-Anzeigesignal
75	FRF	Eingang	Disc-Reflexionssignal
76	HF	Eingang	HF-Hüllkurvensignal
77	TER	Eingang	Spurfehlersignal
78	TROF	Ausgang	Spurservo-Funktionsbereichsschaltsignal
79	TRGL	Ausgang	Spurservo-Schaltverstärkungssignal
80	TRHD	Ausgang	Spurfehler-Pegelhaltesignal
81, 82	KP+, KP—	Ausgang	Rückschlagimpulssignal für Abtasterbewegung
83	FEOF	Ausgang	Spurfehlersignalunterbrechung
84, 85	FEM+, —	Ausgang	Feldimpuls zur Abtasterbewegung
86, 87	MCON+, —	Ausgang	Spinservo-Steuersignal
88	FD	Ausgang	Taktfehler-Ausgangssignal für spannungsgesteuerten Oszillator
89	PD	Ausgang	Phasenkomparator-Ausgangssignal
90	GND	—	Masse
91, 92	VCO, $\overline{VCO}$	Eingang	Taktschwingung
93	EFMO	Ausgang	Auto-Pegelbegrenzer
94	EFMN	Eingang/Ausgang	Auto-Pegelbegrenzer
95	EFMI	Eingang	Auto-Pegelbegrenzer
96	WQ	Ausgang	Q-Kode-Ausgang
97	R/W	Eingang	Q-Kode-Eingang
98	DOUT	Ausgang	Q-Kode-Ausgang
99	DIN	Eingang	Gemeinsamer Dateneingang
100	$\overline{SCK}$	Eingang	Takteingang

Ⓕ TABLE DE FONCTIONS DE CI

LR37631

N° de broche	Nom de borne	Entrée/sortie	Fonction
1	LOIN	Sortie	Non utilisée
2	FCON	Sortie	Non utilisée
3	MUTE	Sortie	Non utilisée
4	SBCL	Sortie	Non utilisée
5	SCREQ	Sortie	Non utilisée
6	SDATA	Sortie	Non utilisée
7	SSYN	Sortie	Non utilisée
8 — 15	A0 — A7	Sortie	Signaux d'adresse, signaux de données et signaux de commande d'entrée
16	VDD	—	Borne d'alimentation
17, 18, 19	A8, A9, $\overline{WE}$	Sortie	Signaux d'adresse, signaux de données et signaux de commande d'entrée
20	OE	Sortie	Signaux d'adresse, signaux de données et signaux de commande d'entrée
21	A10	Sortie	Signaux d'adresse, signaux de données et signaux de commande d'entrée
22 — 29	D8 — D1	Sortie	Signaux d'adresse, signaux de données et signaux de commande d'entrée
30	DEPH	Sortie	Signaux de commande d'atténuation
31, 32	XIN, XOUT	—	Borne d'oscillation à quartz
33	ϕ4	—	Sortie des signaux de synchronisation
34	ϕ2	—	Non utilisée
35	SDO	Sortie	Sortie des signaux de synchronisation
36	SDSY	Sortie	Non utilisée
37	882K	—	Sortie des signaux de synchronisation
38	SWL	Sortie	Non utilisée
39	SWR	Sortie	Non utilisée
40	GND	—	Mise à la terre
41	$\overline{LR}$OR	Sortie	Sortie des signaux de synchronisation
42	$\overline{T}$/N	Entrée	Entrée de la commutation marche/arrêt du filtrage numérique
43	$\overline{2C}$/OB	Sortie	Réglage des signaux audio à 16 bits du format de données
44 — 59	DA1 — DA16	Sortie	Non utilisée
60 — 62	TIN1 — TIN3	—	Borne d'essai
63	ϕS	Sortie	Sortie standard d'horloge du système
64	DFCL	Sortie	Non utilisée
65	CRCC	Sortie	Non utilisée
66	VDD	—	Borne d'alimentation
67, 68	TEST1 — 2	—	Borne d'essai
69	C1FL	—	Borne d'essai
70	DFL	—	Borne d'essai
71, 72	C1F, C2F	Sortie	Sortie d'état d'erreur
73	FCS	Sortie	Signaux d'éariture pour l'initialisation de l'asservissement du foyer
74	FZC	Entrée	Signaux de repérage du foyer
75	FRF	Entrée	Signaux de réflexion de disque
76	HF	Entrée	Signaux d'enveloppe HF
77	TER	Entrée	Signal d'erreur d'alignement
78	TROF	Sortie	Signaux de commutation de la partie d'asservissement pour l'alignement
79	TRGL	Sortie	Signaux de commutation de gain pour l'asservissement d'alignement
80	TRHD	Sortie	Signaux de maintien de niveau pour les signaux d'erreur d'alignement
81, 82	KP+, KP—	Sortie	Signaux d'impulsion "kick" pour déplacer le porte-laser
83	FEOF	Sortie	Arrêt des signaux d'erreur d'alignement
84, 85	FEM+, —	Sortie	Signaux d'impulsion de champ pour déplacer le porte-laser
86, 87	MCON+, —	Sortie	Signaux d'asservissement "spin"
88	FD	Sortie	Sortie pour l'erreur d'horloge VCO
89	PD	Sortie	Sortie pour le comparateur de phases
90	GND	—	Mise à la terre
91, 92	VCO, $\overline{VCO}$	Entrée	Oscillation d'horloge
93	EFMO	Sortie	Régulateur automatique du niveau
94	EFMN	Entrée/	Régulateur automatique du niveau
95	EFMI	Entrée	Régulateur automatique du niveau
96	WQ	Sortie	Sortie du code Q
97	R/W	Entrée	Entrée du code Q
98	DOUT	Sortie	Sortie du code Q
99	DIN	Entrée	Entrée des données de commande
100	$\overline{SCK}$	Entrée	Entrée pour l'horloge

CD-X17H/E
CP-X17X/E

Ⓔ

μPD75208

Pin No.	Terminal Name	I/O	Function
1 — 3	S3 — S0	I/O	Key and FL segment signal output
4	S0	O	FL segment signal output
5	L800	—	Connected to GND
6	SCK	O	Clock output to send or receive data
7	SO	O	Data output
8	SI	I	Data input
9	WQ	I	Signal for reading Q signal
10	RD1	I	Serial 15-bit remote control data input
11	AUXV	I	External video input detection
12	LOIN	—	Connected to GND
13	R/W	—	Connected to GND
14 — 17	—	—	Not used
18	SYN IN	I	Synchronous control signal (synchro setting detection)
19	FNC	I	Function switching signal (Detection for proper timing to play CD)
20	DR	I	Synchronous control signal (Detection for reverse of deck)
21 — 24	KEY	I	Operation key input
25	MUTO	O	Muting control Mute ON-L, OFF-H
26	LANF	O	Laser ON/OFF control ON-L, OFF-H
27	TRAY OP	I	Open/Close motor control output OPEN-H, CLOSE-L
28	TRAY CL	O	Open/Close motor control output OPEN/L, CLOSE-H
29	SYN OUT	O	Synchronous control signal
30	X1	—	Connect oscillator
31	X2	—	Connect oscillator
32	Vss	—	Connected to GND
33	—	—	Not used
34	—	—	Not used
35	—	—	Not used
36	PU IN SW	I	Detection of pickup position H = other than innermost position L = innermost position
37	CL SW	I	Detection for closing disc table OPEN-H, CLOSE-L
38	OP SW	I	Detection for opening disc table OPEN-L, CLOSE-H
39	RESET	I	Reset input
40 — 48	T0—T8	O	FL segment signal output
49 — 53	—	—	Not used
54	S11	O	FL segment signal output
55	S10	O	FL segment signal output
56	VLOAD	—	Apply negative power supply (—27V)
57	VPRE	—	Apply negative power supply
58, 59	S9, S8	O	FL segment signal output
60 — 63	S7—S4	I/O	Key and FL segment signal output
64	VDD	—	Connected to power terminal (+5V)

Ⓓ

μPD75208

Stift Nr.	Klemmenbezeichnung	E/A	Funktion
1 — 3	S3 — S0	E/A	Tasten- und FL-Segmentsignal
4	S0	A	FL-Segmentsignal-Ausgang
5	L800	—	An Masse angeschlossen
6	SCK	A	Takt-Ausgang zum Senden oder Empfangen von Daten
7	SO	A	Datenausgang
8	SI	E	Dateneingang
9	WQ	E	Signal zum Lesen des Q-Signals
10	RD1	E	15-Bit-Serien-Fernsteuerungs-Dateneingang
11	AUXV	E	Extere Videoeingangssignal-Detektion
12	LOIN	—	An Messe angeschlossen
13	R/W	—	An Masse angeschlossen
14 — 17	—	—	Nicht belegt
18	SYN IN	E	Synchron-Steuerungssignal (Synchroneinstellungs-Detektion)
19	FNC	E	Funktionsschaltsignal (Detektion für richtiges Timing zum Abspielen einer CD)
20	DR	E	Synchron-Steuerungssignal (Detektion für Bandrücklauf beim Deck)
21 — 24	KEY	E	Bedienungstaste-Eingabesignal
25	MUTO	A	Stummschaltungssteuerung Stummschaltung ON-L, OFF-H
26	LANF	A	Laser On/OFF-Steuerung ON-L, OFF-H
27	TRAY OP	E	Öffnen/Schließen- Motorsteuerungsausgang OPEN-H/ CLOSE-L
28	TRAY CL	A	Öffnen/Schließen- Motorsteuerungsausgang OPEN-L/ CLOSE-H
29	SYN OUT	A	Synchron-Steuerungssignal
30	X1	—	An Oszillator anschließen
31	X2	—	An Oszillator anschließen
32	Vss	—	An Masse anschlißen
33	—	—	Nicht belegt
34	—	—	Nicht belegt
35	—	—	Nicht belegt
36	PU IN SW	E	Detektion der Pickup-Position H = andere als innerste Position L = innerste Position
37	CL SW	E	Detektion für Schließen der Diskschublade OPEN-H, CLOSE-L
38	OP SW	E	Detektion für Schließen der Diskschublade OPEN-L, CLOSE-H
39	RESET	E	Nullstellungseingang
40 — 48	T0 — T8	A	FL-Segmentsignal-Ausgang
49 — 53	—	—	Nicht belegt
54	S11	A	FL-Segmentsignal-Ausgang
55	S10	A	FL-Segmentsignal-Ausgang
56	VLOAD	—	Negative Spannung (—27V) anlegen
57	VPRE	—	Negative Spannung anlegen
58, 59	S9, S8	A	FL-Segmentsignal-Ausgang
60 — 63	S7 — S4	E/A	Tasten- und FL- Segmentsignalausgabe
64	VDD	—	An der Netzversorgungsklemme (+5V) angeschlossen

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μPD75208

N° de broche	Nom de borne	E/S	Fonction
1 – 3	S3 – S0	E/S	Sortie de signaux de touche et de segment FL
4	S0	S	Sortie de signal de segment FL
5	L800	–	Reliée à la terre
6	SCK	S	Sortie d'horloge pour envoyer ou recevoir des données
7	SO	S	Sortie de données
8	SI	E	Entrée de données
9	WQ	E	Signal pour lire le signal Q
10	RD1	E	Entrée de données de télécommande à 15 bit en série
11	AUXV	E	Détection d'entrée vidéo externe
12	LOIN	–	Reliée à la terre
13	R/W	–	Reliée à la terre
14 – 17	–	–	Non utilisée
18	SYN IN	E	Signal de commande de synchronisation (détection de réglage de synchronisation)
19	FNC	E	Signal de commutation de fonction (Détection pour le départ de lecture CD)
20	DR	E	Signal de commande de synchronisation (Détection de l'opération d'inversion)
21 – 24	KEY	E	Entrée de touche de commande
25	MUTO	S	Commande de réglage silencieux Marche-L, arrêt-H
26	LANF	S	Commande de laser Marche-L, arrêt-H
27	TRAY OP	E	Sortie de commande du moteur d'ouverture/fermeture Ouverture-H, fermeture-L
28	TRAY CL	S	Sortie de commande du moteur d'ouverture/fermeture Ouverture-L, fermeture-H
29	SYN OUT	S	Signal de commande de synchronisation
30	X1	–	Raccordée à l'oscillateur.
31	X2	–	Raccordée à l'oscillateur
32	Xss	–	Reliée à la terre
33	–	–	Non utilisée
34	–	–	Non utilisée
35	–	–	Non utilisée
36	PU IN SW	E	Détection de la position du porte-laser H = non à la position la plus interne L = à la position la plus interne
37	CL SW	E	Détection du tiroir fermé Ouverture-H, fermeture-L
38	OP SW	E	Détection du tiroir ouvert Ouverture-L, fermeture-H
39	RESET	E	Entrée de remise à zéro
40 – 48	T0 – T8	S	Sortie de signal de segment FL
49 – 53	–	–	Non utilisée
54	S11	S	Sortie de signal de segment FL
55	S10	S	Sortie de signal de segment FL
56	VLOAD	–	Appliquer un courant négatif (–27 V).
57	VPRE	–	Appliquer un courant négatif
58, 59	S9, S8	S	Sortie de signal de segment FL
60 – 63	S7 – S4	E/S	Sortie de signaux de touche et de segment FL
64	VDD	–	Reliée à la borne d'alimentation (+5 V)

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IX1473

Pin No.	Terminal Name	Function
1	Vdd	Power applying terminal (Positive)
2	MUT	Muting output
3	VOL UP	Sound volume VR motor output down
4	VOL DOWN	Sound volume VR motor output up
5	REC MUT	Recording muting signal
6	DUB IND	Not used
7	REC IND	Recording indicator lighting output
8	FWD IND	FWD indicator lighting output
9	PLAY IND	Playback indicator lighting output
10	AUTO FUN	Not used
11	ALC/PLAY	Not used
12	HS MTR	Not used
13	T2 IND	Tape 2 indicator lighting output
14	T1 IND	Tape 1 indicator lighting output
15	SOLC HOLD	C solenoid hold output
16	SOLC	C solenoid attraction output
17	SOLB	B solenoid attraction output
18	SOLA HOLD	A solenoid hold output
19	SOLA	A solenoid attraction output
20	REEL A	Reel motor drive output
21	REEL B	Reel motor drive output
22	MAIN MTR	Main motor drive output
23	REMT CTRL	Remote control data signal input
24	HS DUB IND	Not used
25	FWD 1	Mechanism control FWD signal
26	INT 1	—
27	CNVss	—
28	REST	Microcomputer reset terminal
29	X IN	For clock oscillation
30	X OUT	For clock oscillation
31	ϕ	—
32	Vss	GND
33	POW ON IN	Power ON signal input
34	T2 RUN	Tape 2 running pulse input
35	T1 RUN	Tape 1 running pulse input
36	APSS	APSS detection signal input
37	T2 CASSETTE	Tape 2 cassette detection
38	T1 CASSETTE TAPE	Tape 1 cassette detection
39	T1/T2 SW MECH	Tape 1/Tape 2 detection
40	PLAY SW	Play detection
41	POWER ON OUT	Power ON output
42	CD SOURCE H	Not used
43	SYNC A STATUS OUT	Synchronous recording. Recording status setting output.
44—47	CD, AUX, TUN, TAPE	Indicator lighting output
48	PW	Power ON signal output
49, 50	SOURCE A, B	Input switching signal
51	PLAY MUTE	Playback muting output
52	REV	Reverse signal output
53	FWD 2	Forward signal output
54—56	STROBE OUT	Key strobe scan line
57	VLED	Sound volume VR LED lighting output
58	ALL OFF	Not used
59, 60	S1, S0	Input expander IO port switching output
61—64	R3 — R0	Input expander input port

LC7880M

Pin No.	Terminal Name	Input/output	Function
1	CH1 OUT	Output	CH1 output terminal
2	Vref H	Input	Reference voltage "H" input
3	NC	—	Not used
4	Vdd	—	Power terminal +5 V
5	WCLK2	Input	Word clock 2 input terminal: internal signal to latch digital audio data (CH1 data) is generated by using fall of WCLK2 when IF is in low level.
6	LRCK	Input	LR clock 2 input terminal: CH1 and CH2 of input digital audio data are indicated.
7	WCLK1	Input	Word clock 1 input terminal: internal signal to latch the digital audio data (CH2 data) is generated by using fall of WCLK1 when IF is in low level.
8	DATA	Input	Digital audio data input terminal
9	BCLK	—	Bit clock terminal
10	Vdd	—	Power terminal, +5 V
11	TST OUT	Output	Output terminal for test: usually open
12, 13	TST1, TST2	Input	Input terminal for test: usually used for grounding
14	IF	—	Interface switching terminal
15	GND	—	Ground
16	Vref L	Input	Reference voltage "L" input
17	GND	—	Ground
18, 19	NC	—	Not used
20	CH2 OUT	Output	CH2 output terminal

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IX1473

Stift-Nr.	Klemmenbezeichnung	Funktion
1	Vdd	Netzanschlußklemme (Positiv)
2	MUT	Stummschaltungsausgang
3	VOL UP	Lautstärke-VR-Motor-Ausgang tief
4	VOL DOWN	Lautstärke-VR-Motor-Ausgang hoch
5	REC MUT	Aufnahme-Stummschaltungssignal
6	DUB IND	Nicht belegt
7	REC IND	Aufnahme-Leuchtanzeige-Ausgang
8	FWD IND	Vorspulung-Leuchtanzeige-Ausgang
9	PLAY IND	Wiedergabe-Leuchtanzeige-Ausgang
10	AUTO FUN	Nicht belegt
11	ALC/PLAY	Nicht belegt
12	HS MTR	Nicht belegt
13	T2 IND	Band 2-Leuchtanzeige-Ausgang
14	T1 IND	Band 1-Leuchtanzeige-Ausgang
15	SOLC HOLD	C Solenoid-Halte-Ausgang
16	SOLC	C Solenoid-Anzug-Ausgang
17	SOLB	B Solenoid-Anzug-Ausgang
18	SOLA HOLD	A Solenoid-Halte-Ausgang
19	SOLA	A Solenoid-Anzug-Ausgang
20	REEL A	Spulenmotorantrieb-Ausgang
21	REEL B	Spulenmotorantrieb-Ausgang
22	MAIN MTR	Hauptmotorantrieb-Ausgang
23	REMT CTRL	Fernsteuerungsdatensignal-Ausgang
24	HS DUB IND	Nicht belegt
25	FWD 1	Mechanismussteuerung-Vorspulung-Signal
26	INT 1	—
27	CNVss	—
28	REST	Mikrocomputer-Nulstellungsklemme
29	X IN	Für Taktschwingung
30	X OUT	Für Taktschwingung
31	ϕ	—
32	Vss	Masse
33	PW ON IN	"Netz zugeschaltet" - Signaleingang
34	T2 RUN	Band 2-Laufimpuls-Eingang
35	T1 RUN	Band 1-Laufimpuls-Eingang
36	APSS	APSS-Detektionssignal
37	T2 CASSETTE	Band 2-Cassettendetektion
38	T1 CASSETTE TAPE	Band 1-Cassettendetektion
39	T1/T2 SW MECH	Band 1/Band 2-Cassettendetektion
40	PLAY SW	Wiedergabedetektion
41	POWER ON OUT	"Netz zugeschaltet"-Ausgang
42	CD SOURCE H	Nicht belegt
43	SYNC A STATUS OUT	Synchronisierte Aufnahme. Aufnahme-Einstellstatus-Ausgang.
44—47	CD, AUX, TUN, TAPE	Leuchtanzeige-Ausgang
48	PW	"Netz zugeschaltet"-Signalausgang
49, 50	SOURCE A, B	Eingangsschaltsignal
51	PLAY MUTE	Wiedergabe-Stummschaltungsausgang
52	REV	Rückspulung-Signalausgang
53	FWD 2	Vorspulung-Signalausgang
54—56	STROBE OUT	Sensor-Abtastsignalleitung
57	VLED	Lautstärke VR LED Ausgang
58	ALL OFF	Nicht belegt
59, 60	S1, S0	Eingangserweiterung-E/A-Anschluß-Umschaltausgang
61—64	R3 — R0	Eingangserweiterung- Eingangsanschluß

LC7880M

Stift Nr.	Anschlußbezeichung	Eingang/ Ausgang	Funktion
1	CH1 OUT	Ausgang	Kanal 1 Ausgangsanschluß
2	Vref H	Eingang	Bezugsspannung "H"-Eingang
3	NC	—	Anschluß nicht belegt
4	Vdd	—	Spannungsanschluß, +5V
5	WCLK2	Eingang	Wort-Takt-2-Eingangsanschluß: Internes Signal, um Digital-Audiodaten (Kanal 1 - Daten) zu erzeugen, indem der Abfall des WCLK2-Signals benutzt wird, wenn die ZF einen niedrigen Signalpegel aufweist.
6	LRCK	Eingang	LR-Takt-2-Ein- gangsanschluß: Kanal 1 und Kanal 2 der Digital-Audio-Eingangsdaten wird angezeigt.
7	WCLK1	Eingang	Wort-Takt-1-Eingangsanschluß: Internes Signal, um Digital-Audiodaten (Kanal 2 - Daten) zu erzeugen, indem der Abfall des WCLK1-Signals benutzt wird, wenn die ZF einen niedrigen Signalpegel aufweist.
8	DATA	Eingang	Digital-Audioda- ten-Eingangsanschluß
9	BCLK	—	Bittakt-Anschluß
10	Vdd	—	Spannungsanschluß, +5V
11	TST OUT	Ausgang	Test-Ausgangsanschluß: normalerweise offen
12, 13	TST1, TST2	Eingang	Test-Eingangsanschluß: Normalerweise für die Erdung verwendet.
14	IF	—	Interface-Schalt- anschluß
15	GND	—	Masse
16	Vref L	Eingang	Bezugsspannung "L"-Eingang
17	GND	—	Masse
18, 19	NC	—	Anschluß nicht belegt
20	CH2 OUT	Ausgang	Kanal 2 Ausgangsanschluß

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IX1473

N° de broche	Nom de borne	Fonction
1	Vdd	Borne pour mettre sous tension (Positive)
2	MUT	Sortie de réglage silencieux
3	VOL UP	Sortie bas du moteur VR du volume
4	VOL DOWN	Sortie haut du moteur VR du volume
5	REC MUT	Signal de réglage silencieux d'enregistrement
6	DUB IND	Non utilisée
7	REC IND	Sortie d'éclairage du voyant d'enregistrement
8	FWD IND	Sortie d'éclairage du voyant FWD
9	PLAY IND	Sortie d'éclairage du voyant de lecture
10	AUTO FUN	Non utilisée
11	ALC/PLAY	Non utilisée
12	HS MTR	Non utilisée
13	T2 IND	Sortie d'éclairage du voyant de bande 2
14	T1 IND	Sortie d'éclairage du voyant de bande 1
15	SOLC HOLD	Sortie de maintien de solénoïde C
16	SOLC	Sortie d'attraction de solénoïde C
17	SOLB	Sortie d'attraction de solénoïde B
18	SOLA HOLD	Sortie de maintien de solénoïde A
19	SOLA	Sortie d'attraction de solénoïde A
20	REEL A	Sortie d'entraînement du moteur de bobine
21	REEL B	Sortie d'entraînement du moteur de bobine
22	MAIN MTR	Sortie d'entraînement du moteur principal
23	REMT CTRL	Entrée de signal de données de le télécommande
24	HS DUB IND	Non utilisée
25	FWD 1	Signal FWD de commande de mécanisme
26	INT 1	—
27	CNVss	—
28	RESET	Borne de remise à zéro du micro-ordinateur
29	X IN	Pour l'oscillation d'horloge
30	X OUT	Pour l'oscillation d'horloge
31	ϕ	—
32	Vss	TERRE
33	POWER ON IN	Entrée du signal de la mise en circuit
34	T2 RUN	Entrée d'impulsion du défilement de bande 2
35	T1 RUN	Entrée d'impulsion du défilement de bande 1
36	APSS	Entrée de signal de détection APSS
37	T2 CASSETTE	Détection de la cassette de la bande 2
38	T1 CASSETTE TAPE	Détection de la cassette de la bande 1
39	T1/T2 SW MECH	Détection de bande 1/bande 2
40	PLAY SW	Détection de la lecture
41	POWER ON OUT	Sortie de la mise en circuit
42	CD SOURCE H	Non utilisée
43	SYNC A STATUS OUT	Enregistrement de synchronisation. Sortie de réglage de l'état d'enregistrement
44—47	CD, AUX, TUN, TAPE	Sortie d'éclairage du voyant
48	PW	Sortie de signal de la mise en circuit
49,50	SOURCE A, B	Signal de commutation d'entrée
51	PLAY MUTE	Sortie de réglage silencieux de lecture
52	REV	Sortie de signal d'inversion
53	FWD 2	Sortie de signal de l'envoi
54—56	STROBE OUT	Ligne de balayage du repère de touche
57	VLED	Sortie d'éclairage du VR LED du volume
58	ALL OFF	Non utilisée
59,60	S1,S0	Sortie de commutation du port d'entrée/sortie d'extenseur d'entrée
61—64	R3 — R0	Port d'entrée d'extenseur d'entrée

LC7880M

N° de broche	Nom de borne	Entrée/sortie	Fonction
1	CH1 OUT	Sortie	Borne de sortie CH1
2	Vref H	Entrée	Entrée d'une tension "H" de référence
3	NC	—	Non utilisée
4	Vdd	—	Borne d'alimentation +5 V
5	WCLK2	Entrée	Borne d'entrée d'horloge de mot 2; Le signal interne pour basculer les données audionumériques (donnée CH1) est produit par descente de WCLK2 lorsque FIß est au niveau bas.
6	LRCK	Entrée	Borne d'entrée d'horloge LR2: CH1 et CH2 de donnée audionumérique d'entrée sont affichés.
7	WCLK1	Entrée	Borne d'entrée d'horloge de mot 1; Le signal interne pour basculer les données audionumériques (donnée CH2) est produit par descente de WCLK1 lorsque FI est au niveau bas.
8	DATA	Entrée	Borne d'entrée de donnée audionumérique
9	BCLK	—	Borne d'horloge de bit
10	Vdd	—	Borne d'alimentation, +5 V
11	TST OUT	Sortie	Borne d'entrée pour essai: Normalement ouverte
12, 13	TST1, TST2	Sortie	Borne d'entrée pour essai: Utilisée normalement pour la mise à la terre
14	IF	—	Borne de la commutation d'interface
15	GND	—	Mise à la terre
16	Vref L	Entrée	Entrée d'une tension de référence "L"
17	GND	—	Non utilisée
18, 19	NC	—	Non utilisée
20	CH2 OUT	Sortie	Borne de sortie CH2

CD-X17H/E
CP-X17X/E

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LC6554H

Pin No.	Terminal Name	I/O	H/L	Function
1	PP0	O	—	Not used
2	PA0	I	H	Key matrix return input
3	PA1	I	H	Key matrix return input
4	PA2	I	H	Key matrix return input
5	PA3	I	H	Key matrix return input
6	PB0	I	—	Connected to ground
7	PB1	I	—	Connected to ground
8	PB2	I	—	Connected to ground
9	PB3	I	L	Stand-by input
10	PC0	O	H	Key strobe output
11	PC1	O	H	Key strobe output
12	PC2	O	H	Key strobe output
13	PC3	O	—	Not used
14	PD0	O	—	Not used
15	PD1	O	—	Not used
16	PD2	O	H	Key strobe output
17	PD3	O	—	Not used
18	PE0	O	H	Not used
19	PE1	O	H	Data output to PLL
20	PE2	O	—	Not used
21	PE3	O	—	Not used
22	TEST	—	—	Connected to ground
23	Vss	—	—	Connected to ground
24	OSC 1	I	—	Terminal for system clock
25	OSC 2	O	—	Terminal for system clock
26	RES	I	L	System reset input
27	PFO/S1	I	—	Connected to ground
28	PFO/S0	O	H	Data output to PLL
29	PF2/SCK	O	H	Data output to PLL
30	PF3/INT	I	L	Remote control signal input
31	PG0	—	—	Connected to ground
32	PG1	—	—	Connected to ground
33	PG2	O	H	Mono/Stereo signal output H: mono L: Stereo
34	PG3	O	H	Muting signal output
35	PI0	—	—	Connected to ground
36	PI1	I	L	Stereo signal input
37	PI2	I	L	SD signal input
38	PI3	I	H	System stop signal input
39	PJ0	I	—	Connected to ground
40	PJ1	I	—	Connected to ground
41	PJ2	I	—	Connected to ground
42	PJ3	I	—	Connected to ground
43	VP	—	—	Power supply terminal for pull-down resistance
44	PK0	O	H	Segment output to fluorescent display tube a
45	PK1	O	H	Segment output to fluorescent display tube b
46	PK2	O	H	Segment output to fluorescent display tube C
47	PK3	O	H	Segment output to fluorescent display tube d
48	PL0	O	H	Segment output to fluorescent display tube e
49	PL1	O	H	Segment output to fluorescent display tube f
50	PL2	O	H	Segment output to fluorescent display tube g
51	PL3	O	H	Segment output to fluorescent display tube h
52	PM0	O	H	Digit output to fluorescent display tube G1
53	PM1	O	H	Digit output to fluorescent display tube G2
54	PM2	O	H	Digit output to fluorescent display tube G3
55	PM3	O	H	Digit output to fluorescent display tube G4
56	VDD	—	—	Terminal for power supply
57	PN0	O	H	Digit output to fluorescent display tube G5
58	PN1	O	H	Digit output to fluorescent display tube G6
59	PN2	O	H	Digit output to fluorescent display tube G7
60	PM3	O	H	Digit output to fluorescent display tube G8
61	PO0	O	—	Not used
62	PO1	O	—	Not used
63	PO2	O	—	Not used
64	PO3	O	—	Not used

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LC6554H

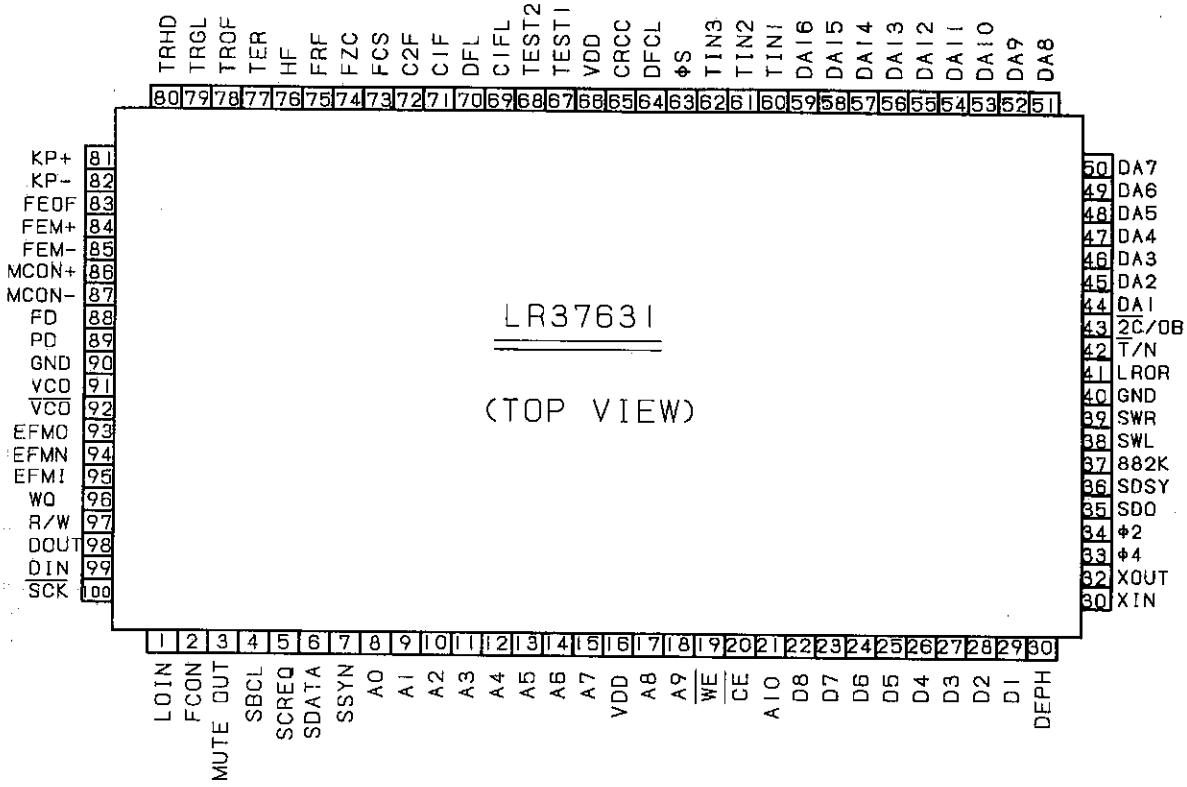
Stift-Nr.	Klemmenbezeichnung	E/A	H/L	Funktion
1	PP0	A	—	Nicht belegt
2	PA0	E	H	Tastenmatrix-Rückführungseingang
3	PA1	E	H	Tastenmatrix-Rückführungseingang
4	PA2	E	H	Tastenmatrix-Rückführungseingang
5	PA3	E	H	Tastenmatrix-Rückführungseingang
6	PB0	E	—	An Masse angeschlossen
7	PB1	E	—	An Masse angeschlossen
8	PB2	E	—	An Masse angeschlossen
9	PB3	E	L	Standby-Eingang
10	PC0	A	H	Sensor-Abtastsignalausgang
11	PC1	A	H	Sensor-Abtastsignalausgang
12	PC2	A	H	Sensor-Abtastsignalausgang
13	PC3	A	—	Nicht belegt
14	PD0	A	—	Nicht belegt
15	PD1	A	—	Nicht belegt
16	PD2	A	H	Sensor-Abtastsignalausgang
17	PD3	A	—	Nicht belegt
18	PD0	A	H	Nicht belegt
19	PE1	A	H	Datenausgang zu PLL
20	PE2	A	—	Nicht belegt
21	PE3	A	—	Nicht belegt
22	TEST	—	—	An Masse angeschlossen
23	Vss	—	—	An Masse angeschlossen
24	OSC 1	E	—	Klemme für Systemtakt
25	OSC 2	A	—	Klemme für Systemtakt
26	RES	E	L	System-Nullstellungseingang
27	PFO/S1	E	—	An Masse angeschlossen
28	PFO/S0	A	H	Detenausgang zu PLL
29	PF2/SCK	A	H	Detenausgang zu PLL
30	PF3/INT	E	L	Fernsteuerung-Signaleingang
31	PG0	—	—	An Masse angeschlossen
32	PG1	—	—	An Masse angeschlossen
33	PG2	A	H	Mono-Stereo-Signalausgang H: Mono L: Stereo
34	PG3	A	H	Stummschaltung-Signalausgang
35	PI0	—	—	An Masse angeschlossen
36	PI1	E	L	Stereo-Signaleingang
37	PI2	E	L	CD-Signaleingang
38	PI3	E	H	System-Stoppsignaleingang
39	PJ0	E	—	An Masse angeschlossen
40	PJ1	E	—	An Masse angeschlossen
41	PJ2	E	—	An Masse angeschlossen
42	PJ3	E	—	An Masse angeschlossen
43	VP	—	—	Stromversorgungsklemme für "Pull-down"-Wiederstand
44	PK0	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre a
45	PK1	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre b
46	PK2	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre c
47	PK3	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre d
48	PL0	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre e
49	PL1	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre f
50	PL2	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre g
51	PL3	A	H	Segmentsignal-Ausgang zur Leuchtanzeigeröhre h
52	PM0	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G1
53	PM1	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G2
54	PM2	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G3
55	PM3	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G4
56	VDD	—	—	Stromversorgungsklemme
57	PN0	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G5
58	PN1	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G6
59	PN2	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G7
60	PM3	A	H	Ziffernsignal-Ausgang zur Leuchtanzeigeröhre G8
61	PO0	A	—	Nicht belegt
62	PO1	A	—	Nicht belegt
63	PO2	A	—	Nicht belegt
64	PO3	A	—	Nicht belegt

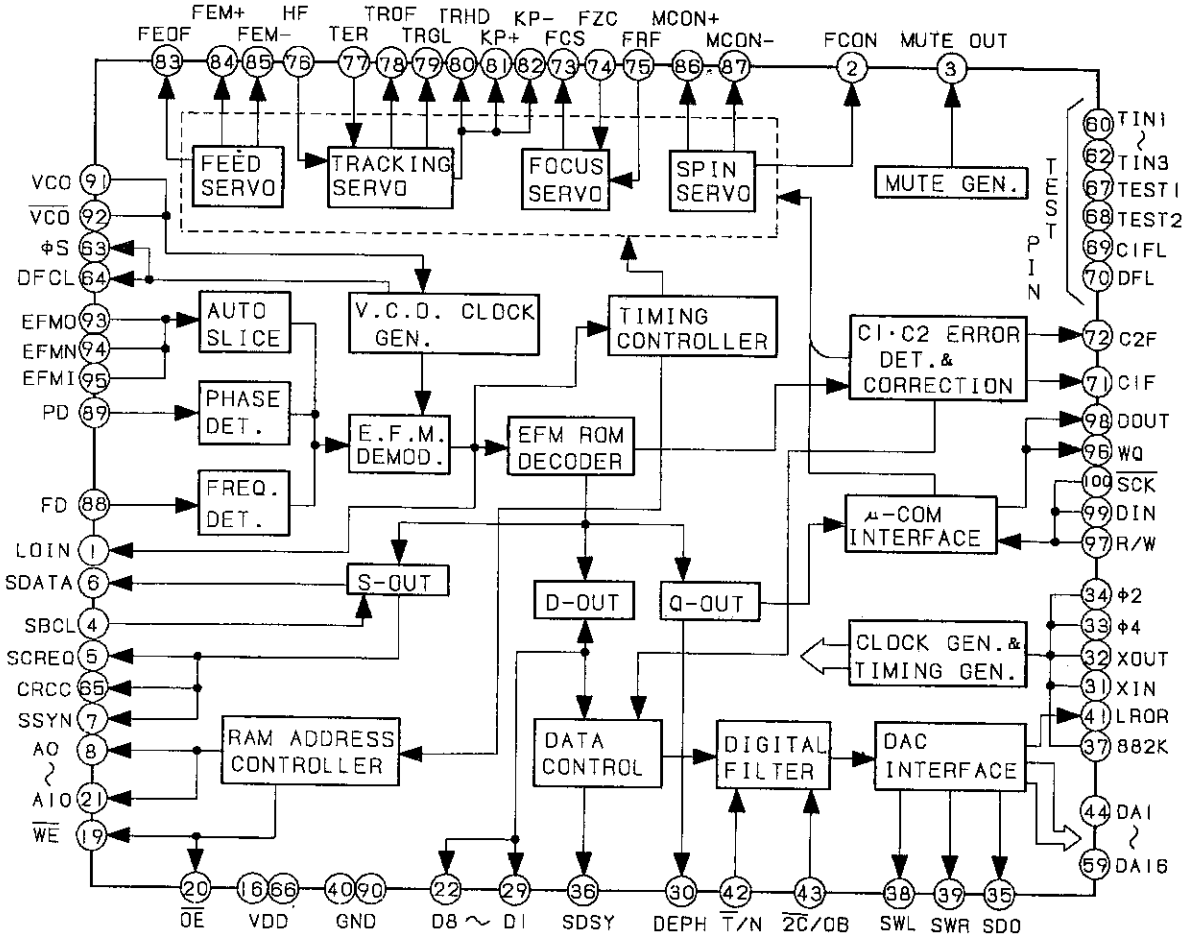
Ⓕ

LC6554H

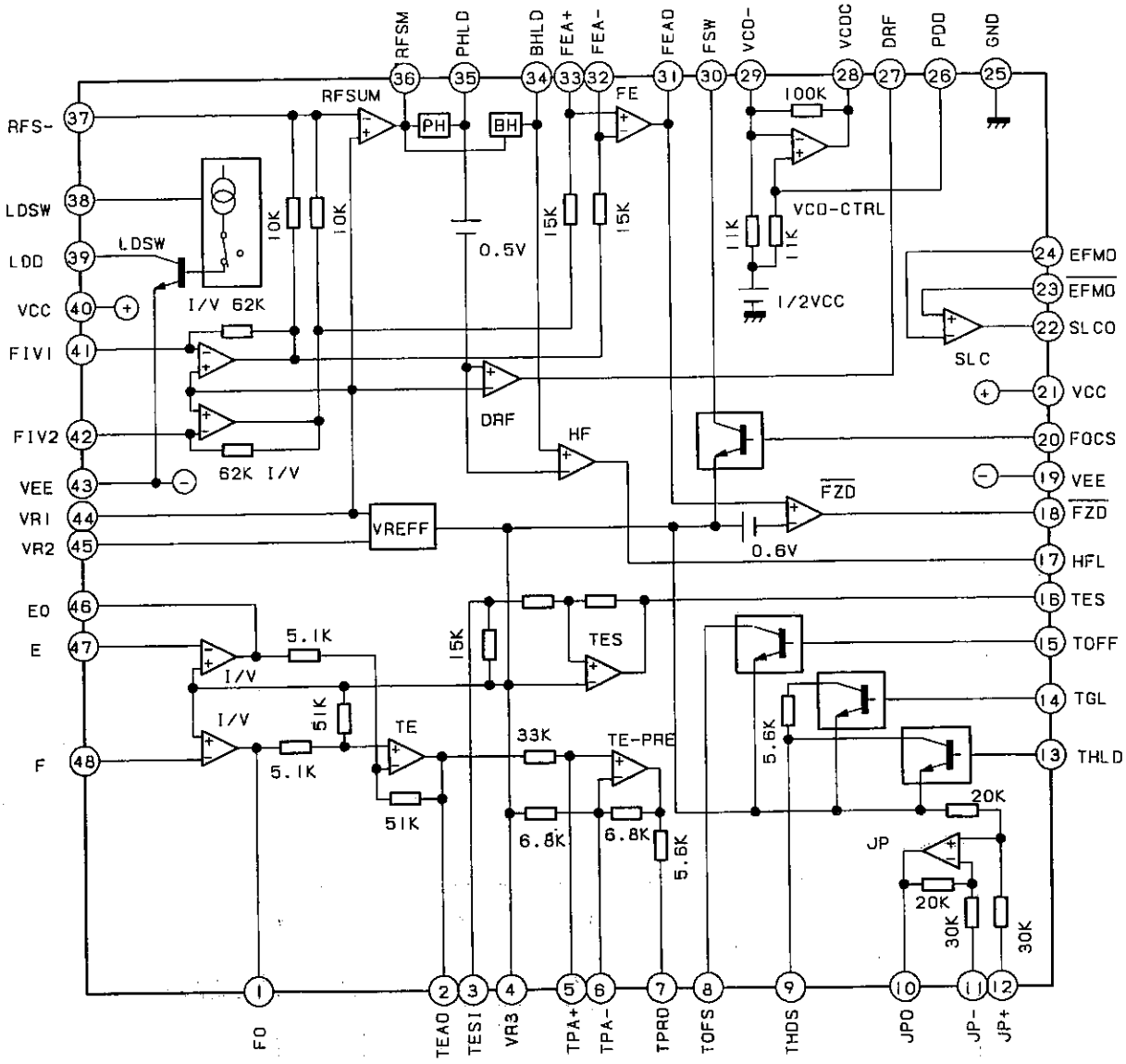
N° de broche	Nom de borne	E/S	H/L	Fonction
1	PP0	S	—	Non utilisée
2	PA0	E	H	Entrée de retour de la matrice de touche
3	PA1	E	H	Entrée de retour de la matrice de touche
4	PA2	E	H	Entrée de retour de la matrice de touche
5	PA3	E	H	Entrée de retour de la matrice de touche
6	PB0	E	—	Reliée à la terre
7	PB1	E	—	Reliée à la terre
8	PB2	E	—	Reliée à la terre
9	PB3	E	L	Reliée à la terre
10	PC0	S	H	Sortie de repère de touche
11	PC2	S	H	Sortie de repère de touche
12	PC2	S	H	Sortie de repère de touche
13	PC3	S	—	Non utilisée
14	PD0	S	—	Non utilisée
15	PD1	S	—	Non utilisée
16	PD2	S	H	Sortie de repère de touche
17	PD3	S	—	Non utilisée
18	PE0	S	H	Non utilisée
19	PE1	S	H	Sortie de données pour PLL
20	PE2	S	—	Non utilisée
21	PE3	S	—	Non utilisée
22	TEST	—	—	Reliée à la terre
23	Vss	—	—	Reliée à la terre
24	OSC1	E	—	Borne pour l'horloge de système
25	OSC1	S	—	Borne pour l'horloge de système
26	RES	E	L	Entrée de la remise à zéro de système
27	PF0/S1	E	—	Reliée à la terre
28	PF0/S0	S	H	Sortie de données pour PLL
29	PF2/SCK	S	H	Sortie de données pour PLL
30	PF3/INT	E	L	Entrée de signal de télécommande
31	PG0	—	—	Reliée à la terre
32	PG1	—	—	Reliée à la terre
33	PG2	S	H	Sortie de signal de monaural/stéréo
			L	H: Monaural L: Stéréo
34	PG3	S	H	Sortie de signal de réglage silencieux
35	PI0	—	—	Reliée à la terre
36	PI1	E	L	Entrée de signal stéréo
37	PI2	E	L	Entrée de signal SD
38	PI3	E	H	Entrée de signal d'arrêt de système
39	PJ0	E	—	Reliée à la terre
40	PJ1	E	—	Reliée à la terre
41	PJ2	E	—	Reliée à la terre
42	PJ3	E	—	Reliée à la terre
43	VP	—	—	Borne d'alimentation pour la résistance "pull-down"
44	PK0	S	H	Sortie de segment pour le tube d'affichage fluorescent a
45	PK1	S	H	Sortie de segment pour le tube d'affichage fluorescent b
46	PK2	S	H	Sortie de segment pour le tube d'affichage fluorescent c
47	PK3	S	H	Sortie de segment pour le tube d'affichage fluorescent d
48	PL0	S	H	Sortie de segment pour le tube d'affichage fluorescent e
49	PL1	S	H	Sortie de segment pour le tube d'affichage fluorescent f
50	PL2	S	H	Sortie de segment pour le tube d'affichage fluorescent g
51	PL3	S	H	Sortie de segment pour le tube d'affichage fluorescent h
52	PM0	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G1
53	PM1	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G2
54	PM2	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G3
55	PM3	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G4
56	VDD	—	—	Borne pour l'alimentation
57	PN0	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G5
58	PN1	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G6
59	PN2	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G7
60	PM3	S	H	Sortie de chiffre pour le tube d'affichage fluorescent G8
61	PO0	S	—	Non utilisée
62	PO1	S	—	Non utilisée
63	PO2	S	—	Non utilisée
64	PO3	S	—	Non utilisée

LR37631


LR37631
(TOP VIEW)
TRHD TRGL TROF TER HF FRF FZC FCS C2F CIF DFL CIFL TEST2 TEST1 VDD CRCC DFCL ΦS TIN3 TIN2 TIN1 DA16 DA15 DA14 DA13 DA12 DA11 DA10 DA9 DA8
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51
KP+ 81
KP- 82
FEOF 83
FEM+ 84
FEM- 85
MCON+ 86
MCON- 87
FD 88
PD 89
GND 90
VCO 91
VCO 92
EFMO 93
EFMN 94
EFMI 95
WQ 96
R/W 97
DOUT 98
DIN 99
SCK 100
50 DA7
49 DA6
48 DA5
47 DA4
46 DA3
45 DA2
44 DA1
43 2C/OB
42 T/N
41 LROR
40 GND
39 SWR
38 SWL
37 882K
36 SDSY
35 SDO
34 Φ2
33 Φ4
32 XOUT
30 XIN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
LOIN FCON MUTE OUT SBCL SCREQ SDATA SSYN A0 A1 A2 A3 A4 A5 A6 A7 VDD A8 A9 WE CE A10 D8 D7 D6 D5 D4 D3 D2 D1 DEPH


FEM+ HF TROF TRHD KP- FZC MCON+
FEOF FEM- TER TRGL KP+ FCS FRF MCON-
FCON MUTE OUT
83 84 85 75 77 78 79 80 81 82 73 74 75 86 87 2 3
FEED SERVO
TRACKING SERVO
FOCUS SERVO
SPIN SERVO
MUTE GEN.
TEST PIN
VCO 91
VCO 92
ΦS 63
DFCL 64
AUTO SLICE
V.C.O. CLOCK GEN.
TIMING CONTROLLER
C1·C2 ERROR DET.& CORRECTION
EFMO 93
EFMN 94
EFMI 95
PD 89
PHASE DET.
E.F.M. DEMOD.
EFM ROM DECODER
FD 88
FREQ. DET.
μ-COM INTERFACE
LOIN 1
SDATA 6
SBCL 4
SCREQ 5
CRCC 65
SSYN 7
A0 ~ A10 8 ~ 21
WE 19
S-OUT
D-OUT
Q-OUT
CLOCK GEN.& TIMING GEN.
RAM ADDRESS CONTROLLER
DATA CONTROL
DIGITAL FILTER
DAC INTERFACE
20 16 66 40 90 22 29 36 30 42 43 38 39 35
OE VDD GND D8 ~ D1 SDSY DEPH T/N 2C/OB SWL SWR SDO
60 TIN1 ~ 62 TIN3
67 TEST1
68 TEST2
69 CIFL
70 DFL
72 C2F
71 C1F
98 DOUT
96 WQ
100 SCK
99 DIN
97 R/W
34 Φ2
33 Φ4
32 XOUT
31 XIN
41 LROR
37 882K
44 DA1 ~ 59 DA16

LA9200M



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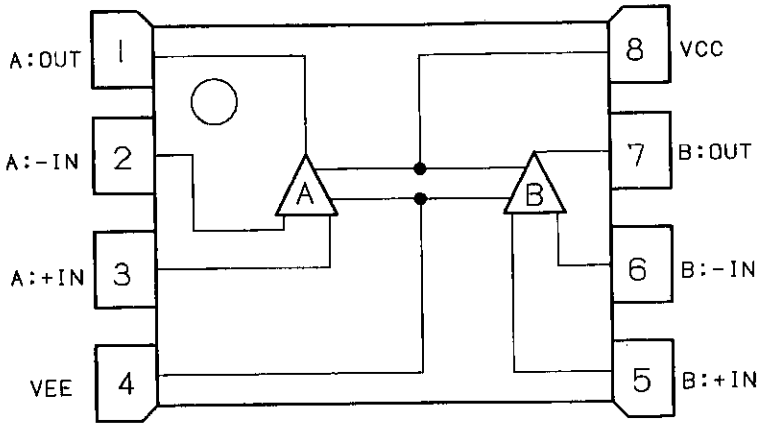

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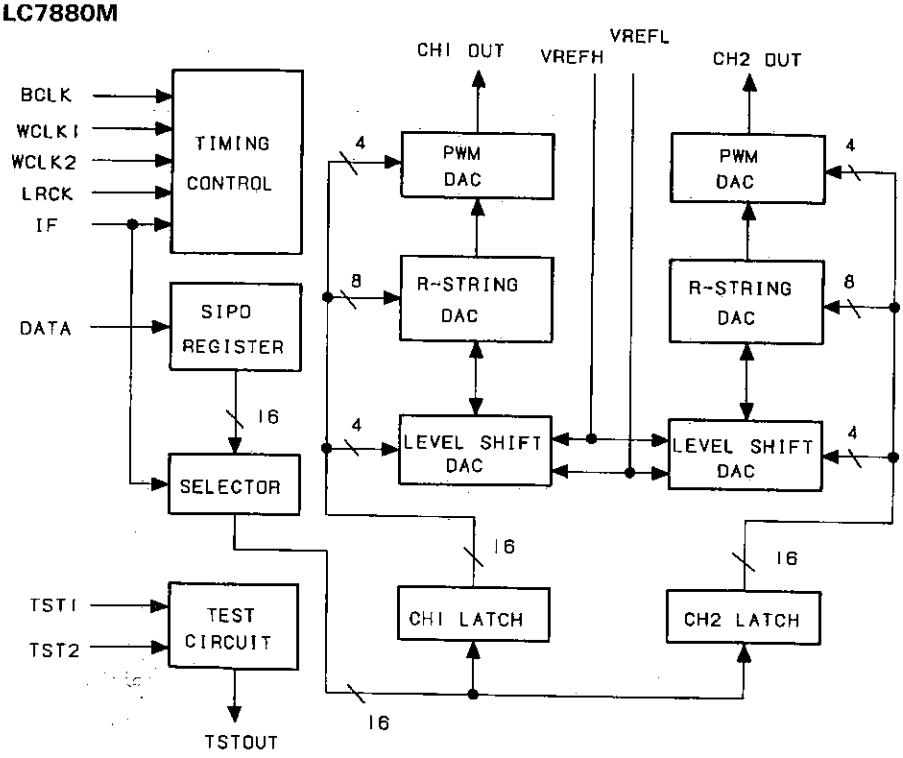

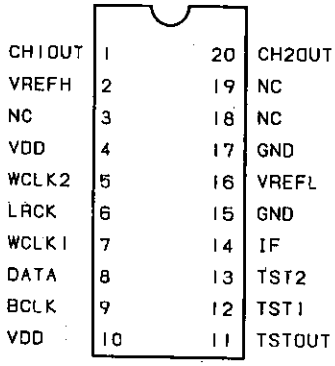

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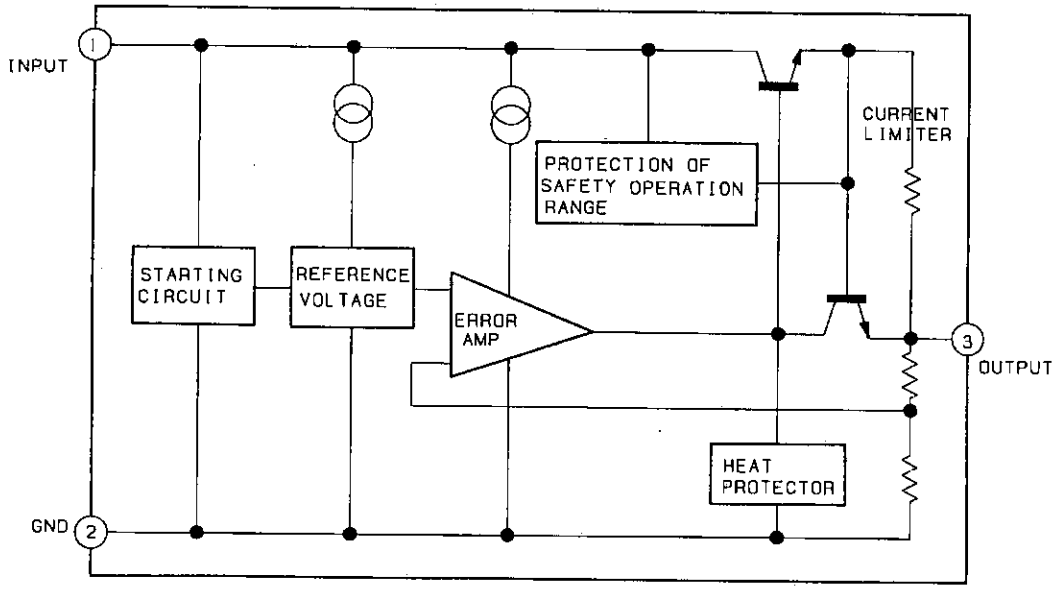

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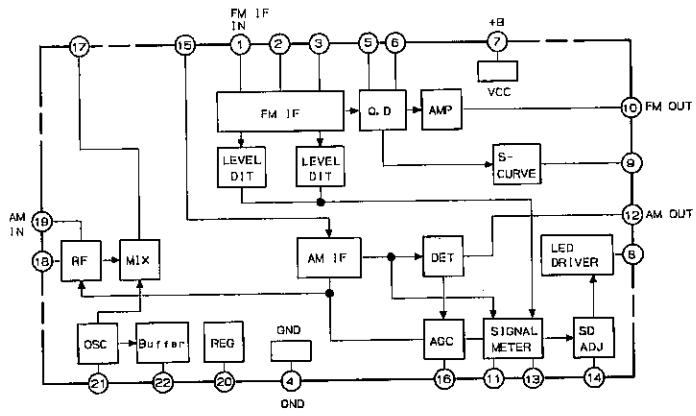
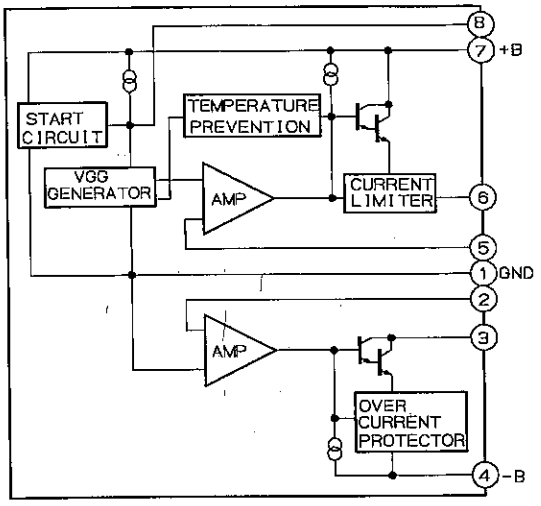
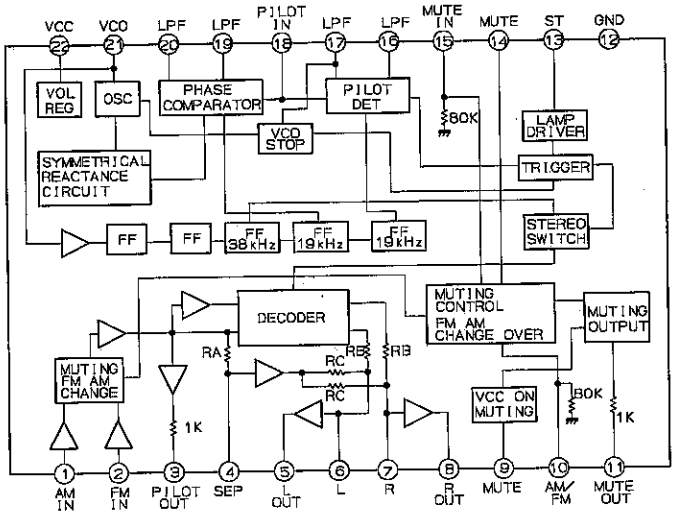


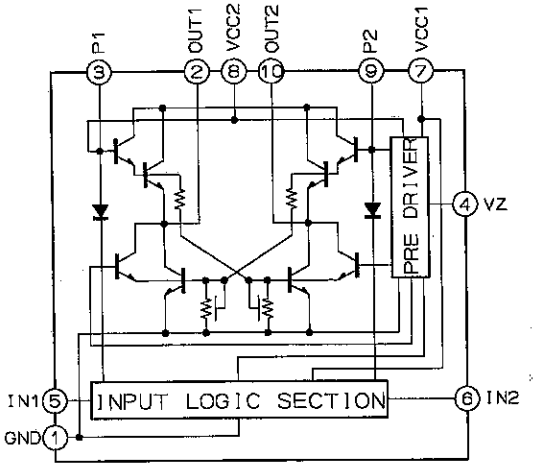
M5230L



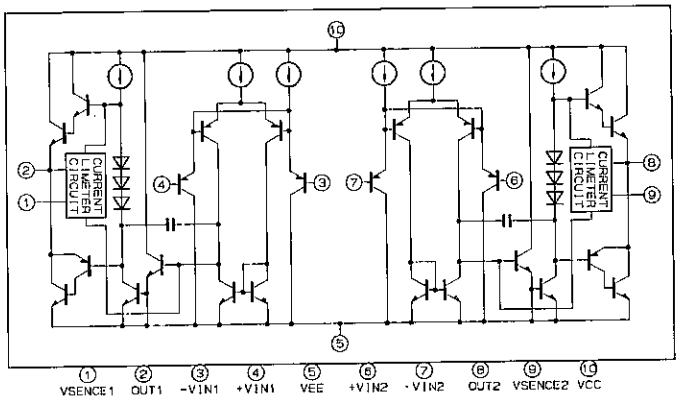
LA3401



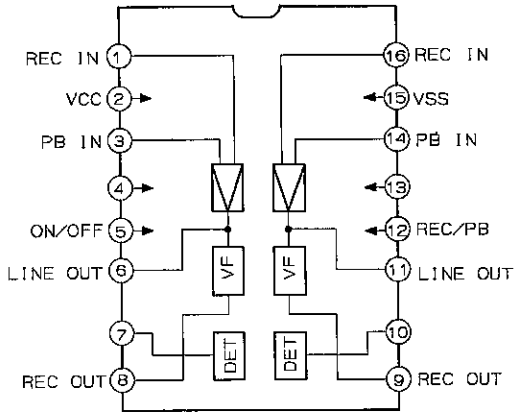
LB1641



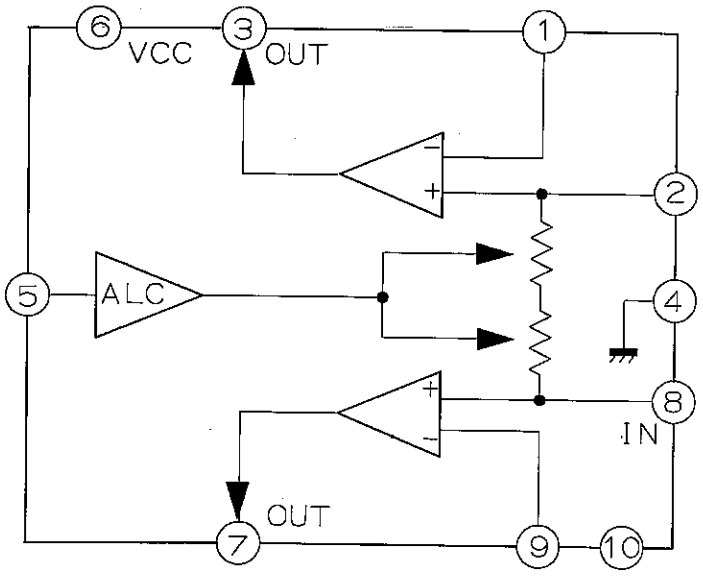
LA6510L



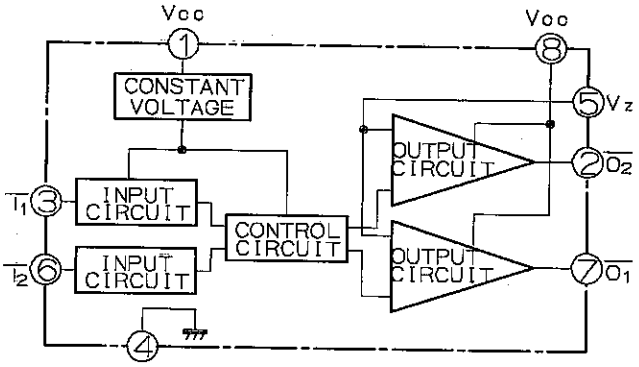
CXA1101P



M51544AL

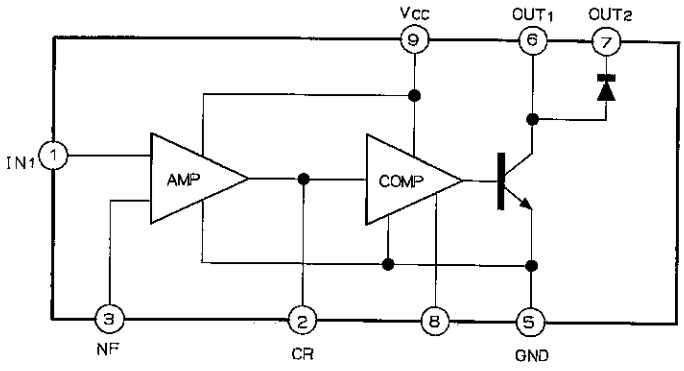


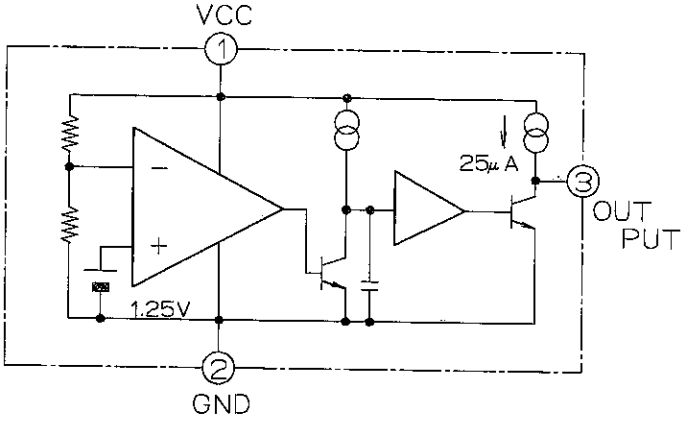
M54641L



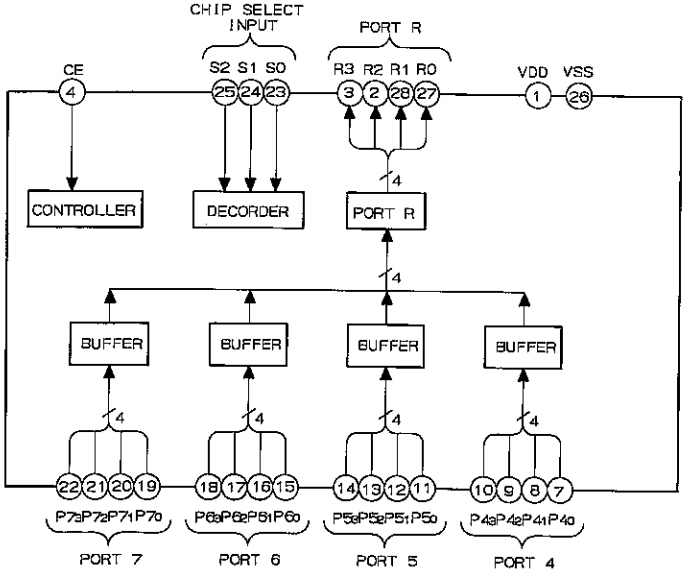
M51951ASL

LA2000





M50784SP



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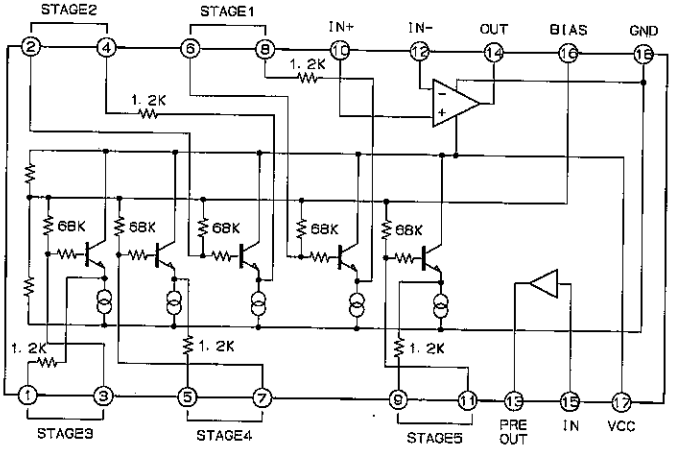
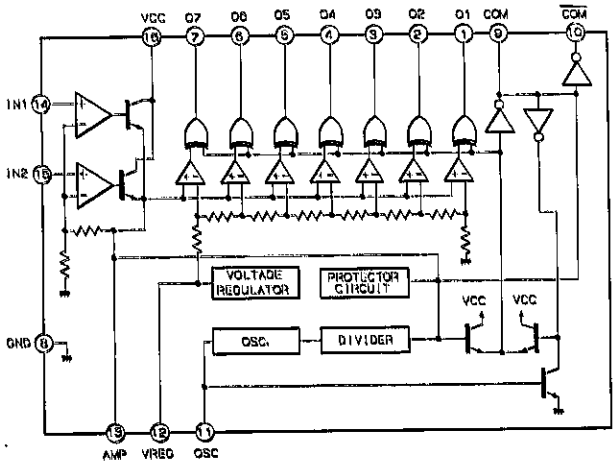
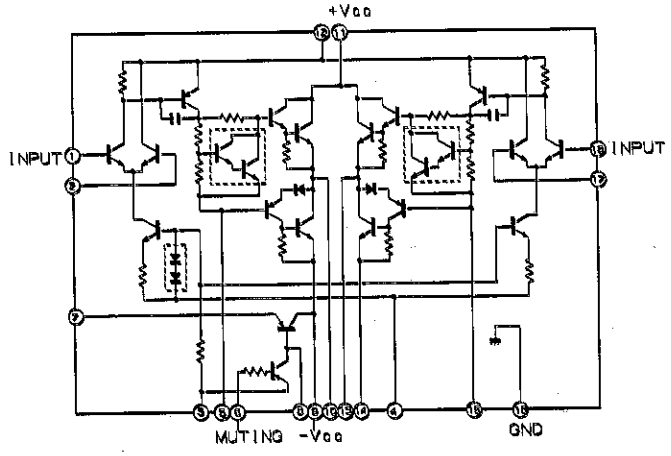


IR2E34

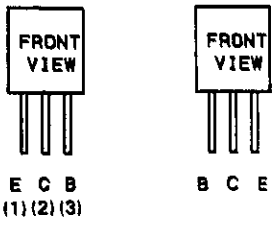


STK4132II

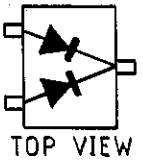


2SC2001 L
2SC2785 EF
2SC380 O
2SC2603 G
2SC2603 F
2SC2878 B
2SC3247 J
2SA562 Y
2SA933 SR
2SC1740 SR
DTA144 WS
DTA114 YS
DTC144 ES

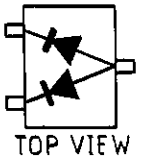
2SB562 C
2SB1185 E
2SD2061



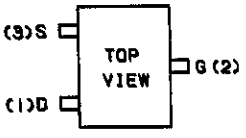
1S2837



1S2835

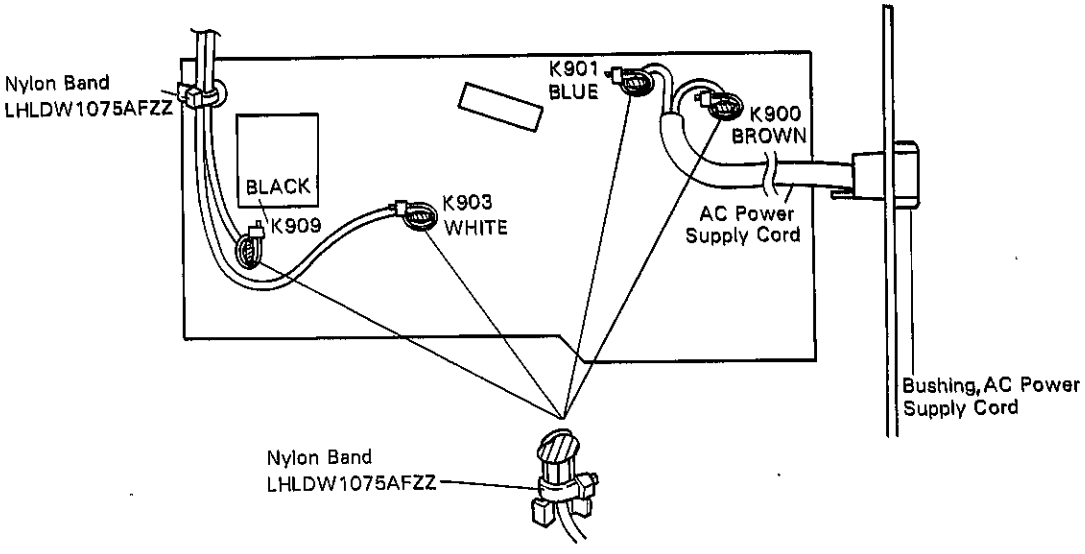


DTA114 EK
DTC114 YK
DTC363 TK



WIRING OF PRIMARILY SUPPLY LEADS (CD-X17E ONLY)

If any one of the nylon bands shown in the Fig. 63 is removed for some reason, be sure to replace it to the original position and the same appearance as before.



GL-2PR6
LT5PR21A
GL-2EG6

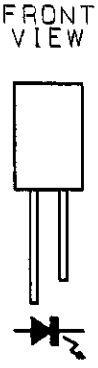


Figure 63

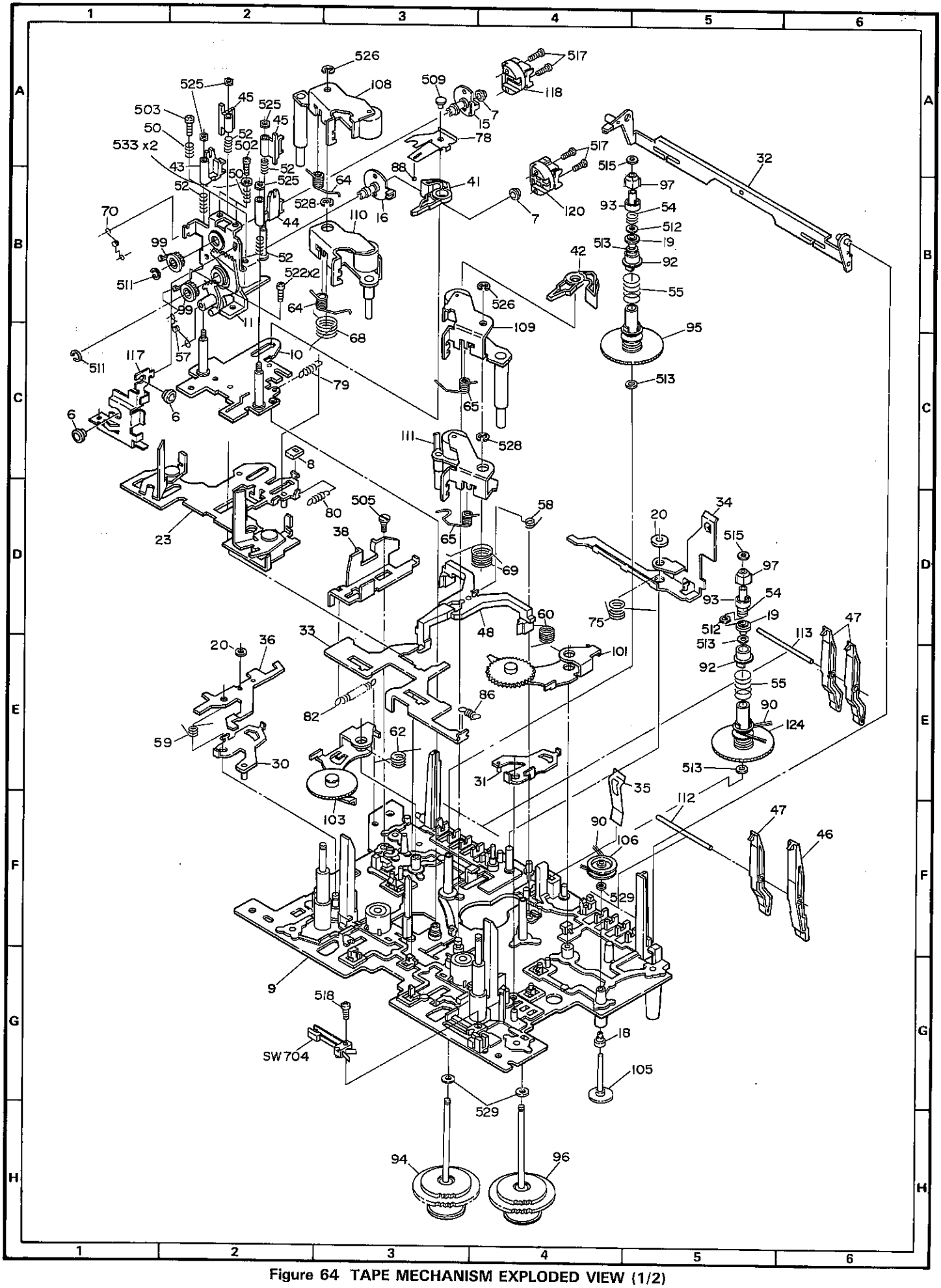


Figure 64 TAPE MECHANISM EXPLODED VIEW (1/2)

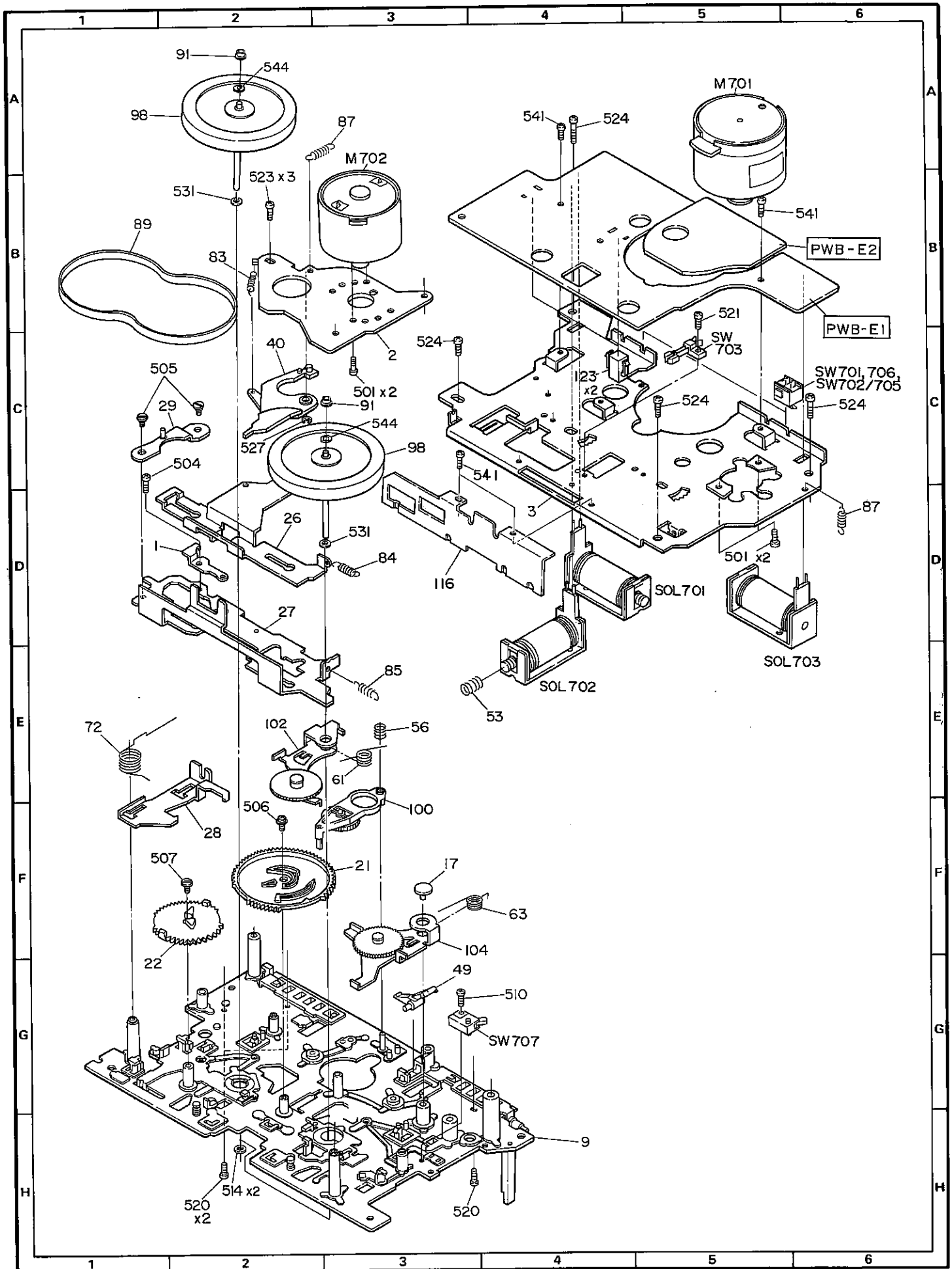


Figure 65 TAPE MECHANISM EXPLODED VIEW (2/2)

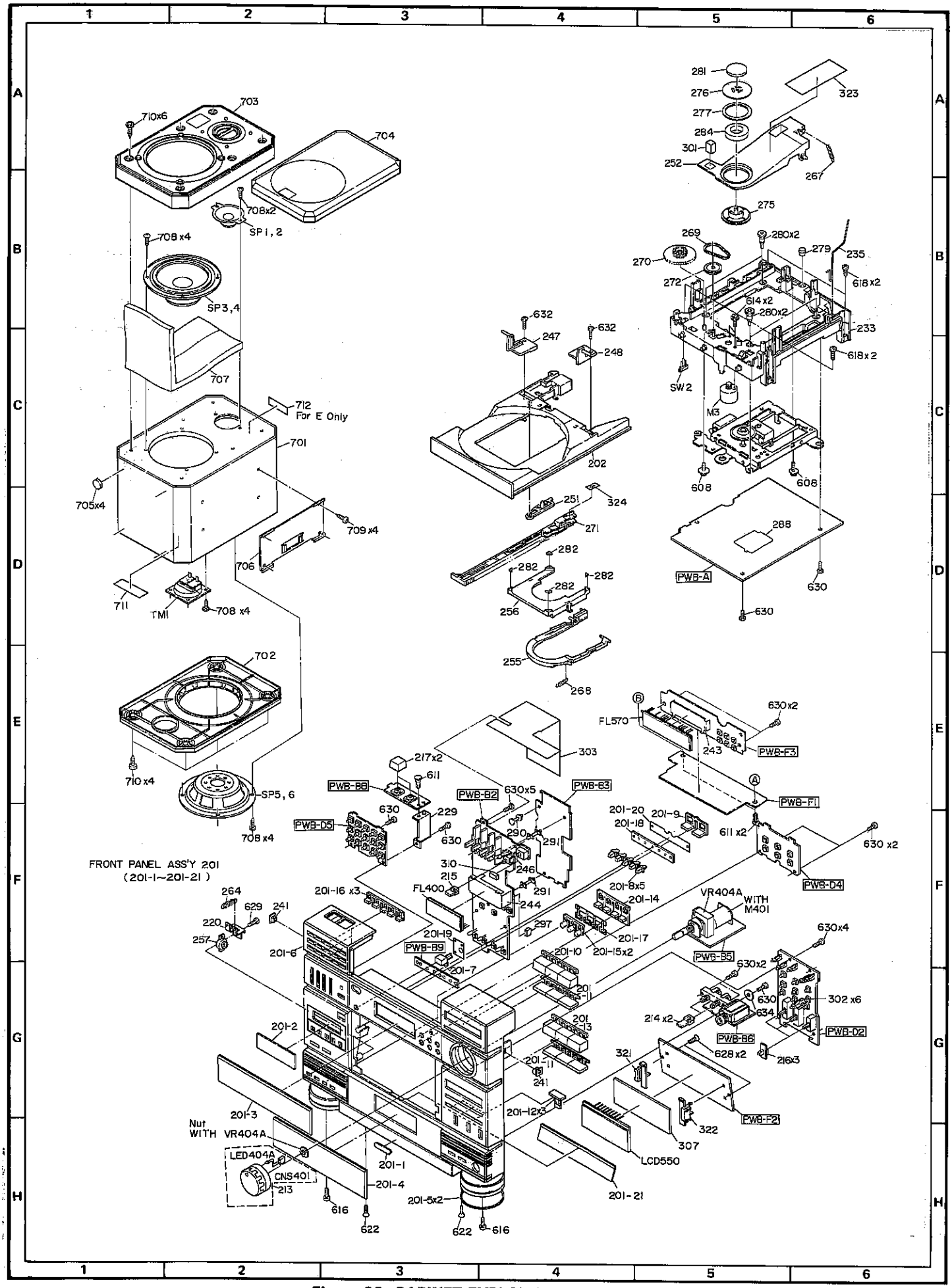


Figure 66 CABINET EXPLODED VIEW (1/2)

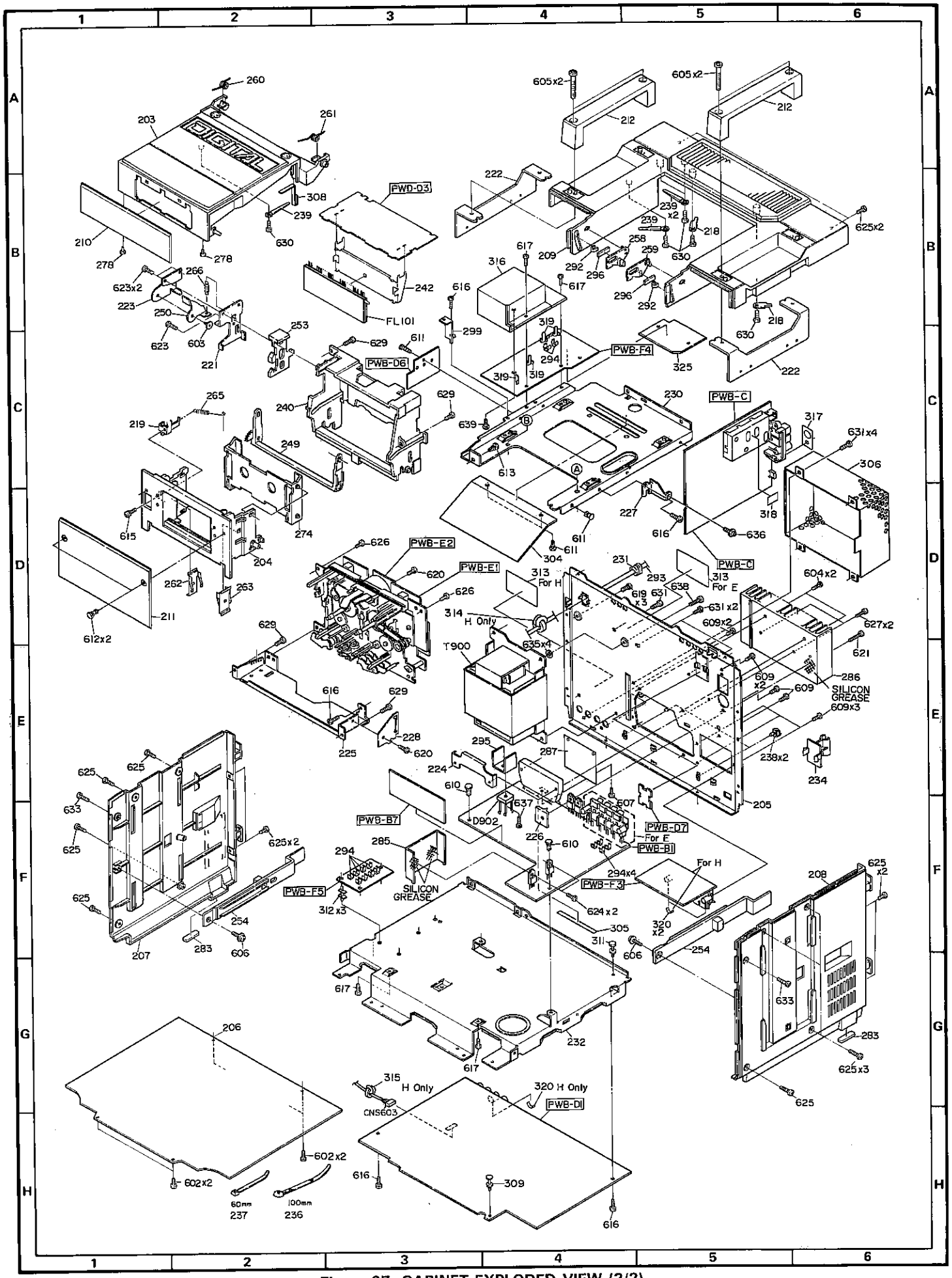


Figure 67 CABINET EXPLODED VIEW (2/2)

Ⓔ
This Mechanism is supplied as an assmebly so as to maintain performance and to ensure serviceability at reasonable cost. Switch (SW1), slide motor (M2), connector ass'y (CNS6), screw (402-4), nylon band (402-2) and belt (402-3) can be replaced either as an assembly or as a part.

Ⓓ
Dieser Mechanismus wird als Aufbau gellefert, um die Leistung zu erhalten und die Wartbarkeit auf zumutbare Kosten zu sichern. Schalter (SW1), Gleitmotor (M2), Verbindungssatz (CNS6), Schraube (402-4), Nylonband (402-2) und Riemen (402-3) können entweder als ein Aufbau oder als ein Teil ausgewechselt werden.

Ⓕ
Ce mécanisme est fourni en tant qu'ensemble pour maintenir la performance et afin d'assurer l'entretien à peu de frals. On peut remplacer comme ensemble ou séparément le commutateur (SW1), le moteur de glissement (M2), l'ensemble de connecteurs (CNS6), la vis (402-4), la bande en nylon (402-2) et la courrole (402-3).

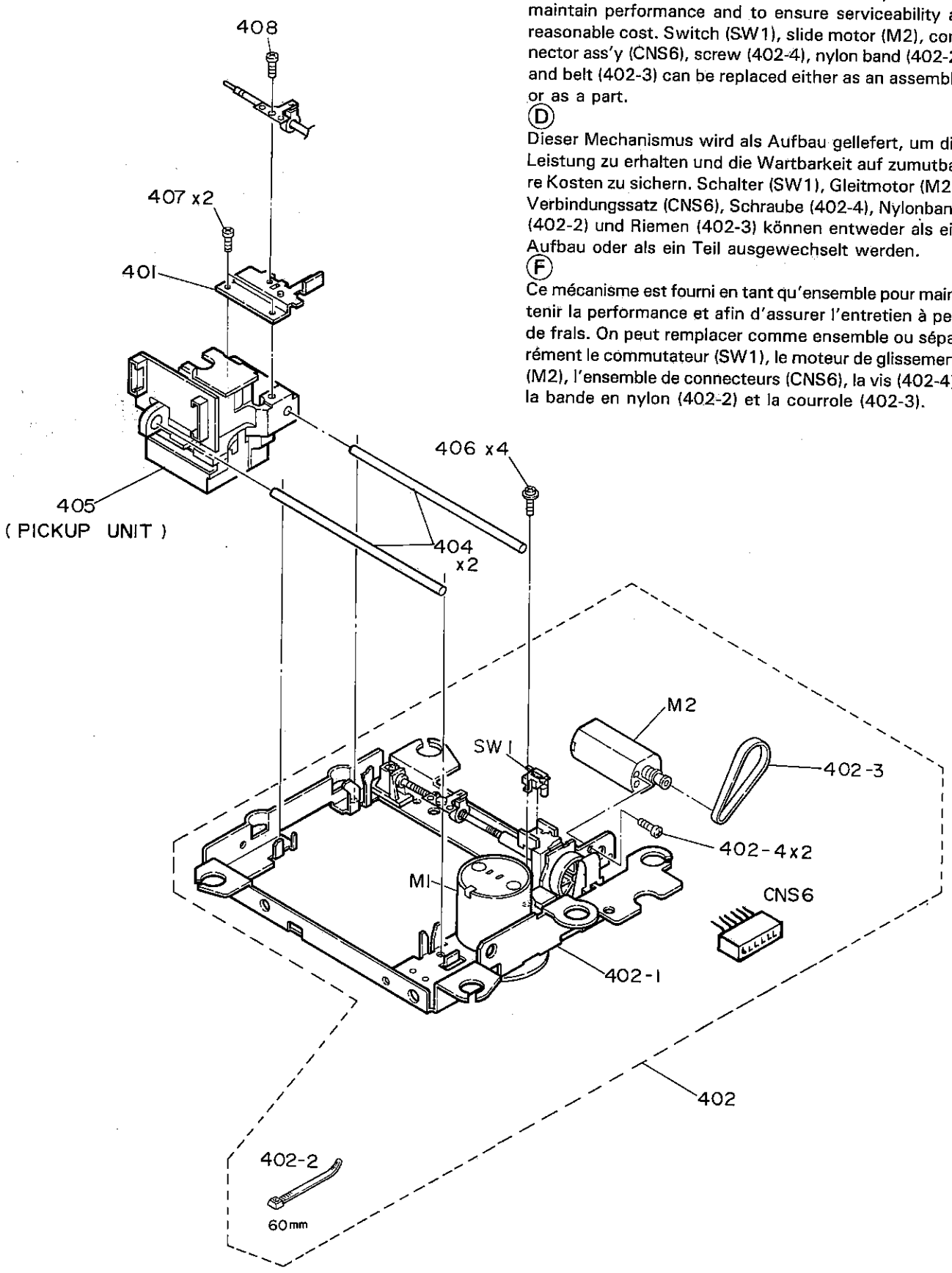


Figure 68 CD MECHANISM EXPLODED VIEW

PACKING METHOD (CD-X17E/CP-X17E ONLY)

SETTING POSITIONS OF SWITCHES AND KNOBS	
Graphic Equalizer Controls	"0" (CENTER)
Volume Control	"0" (MIN)
TAPE-1, 2 Selector	NORMAL
Dolby NR	OFF
Power	OFF
Best Cancel	A
X-BASS	OFF
Timer mode	OFF
Reverse mode	↵

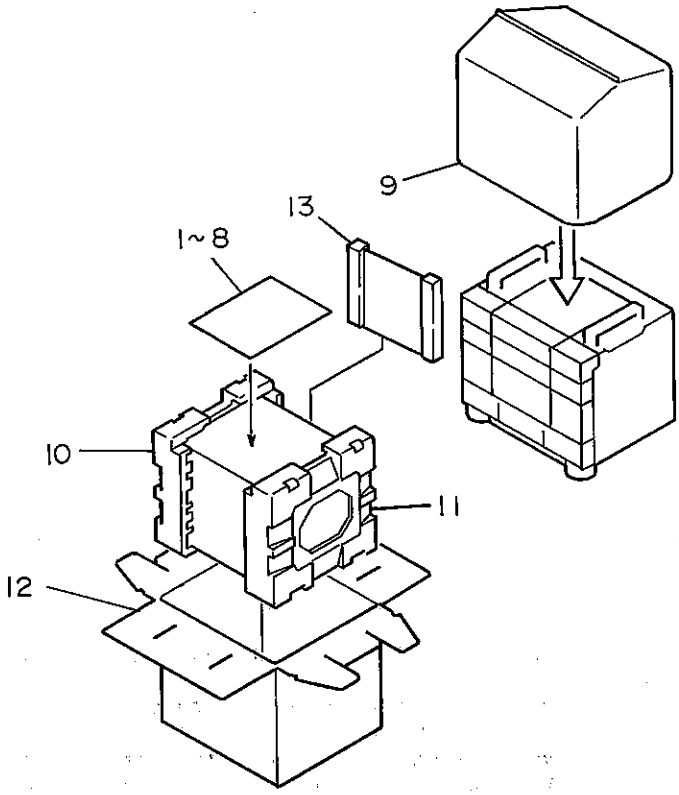


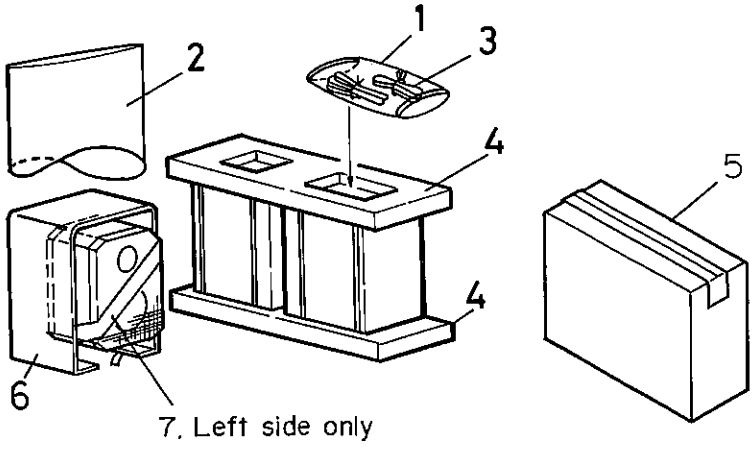
Figure 69—1

CD-X17E

1. Loop Antenna	QANTL0109AFZZ
2. FM Antenna	QANTW0104AFZZ
3. Antenna Adaptor	QPLGF9002AFZZ
4. Manual, Adaptor	TCAUZ0251AFZZ
5. Remote Control Unit	RRMCG0147AFSA
6. Warranty Card	TGANE1117AFZZ
7. Operation Manual	TiNSE1431AFZZ
8. Polyethylene Bag, Accessories	SSAKA0024AFZZ
9. Polyethylene Bag, Unit	SPAKP0856AFZZ
10. Packing Add., Left	SPAKA1915AFZZ
11. Packing Add., Right	SPAKA1916AFZZ
12. Packing Case	SPAKC4982AFZZ
13. Pad, Back	SPAKX2274AFZZ

CP-X17E

1. Polyethylene Bag, Speaker Cord	97HX10CŌRD-BAG
2. Polyethylene Bag, Speaker Box	97HX10U-BAG
3. Speaker Cord	97HX10SP-CŌRD
4. Packing Add. Top and Bottom	97HX17P-ADŌ
5. Packing Case	97HX17EP-CASE
6. Protection Mat	97HX10P-MAT
7. Label, Feature	TLABZ1336AFZZ



Fibure 69—2

Ⓔ

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

Ⓓ

ERSATZTEILLISTE

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig ausführen zu können, bitten wir um die folgenden Angaben.

1. MODELLNUMMER
2. REF. NR.
3. TEIL NR.
4. BESCHREIBUNG

ANMERKUNGEN:

Die mit "⚠" bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

Ⓕ

LISTE DES PIÈCES DE RECHANGE

"COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

NOTE:

Les pièces portant la marque "⚠" sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

INTEGRATED CIRCUITS

REF.NO.	PART NO.	DESCRIPTION	CODE
IC1	VHiLR37631/-1	Servo/Signal Control, LR37631	B A
IC2	VHiLA9200M/-1	Servo Amp.,LA9200M	A N
IC3	VHiLC7880M/-1	D/A Converter,LC7880M	A N
IC4	VHiLH5116N-20	16K-bit RAM,LH5116N	A P
IC5,6	VHiNJM4560M-1	Buffer Amp.,NJM4560M	A E
IC8,9	VHiLA6510L/-1	Driver,LA6510L	A K
IC10	VHiM54641L/-1	Motor Driver,M54641L	A G
IC11	VHiNJM79L05A1	Voltage Regulator,NJM79 L05A	A E
IC12	VHiL78N05//-1	Voltage Regulator,L78N05	A F
IC13	VHiNJM78L06A1	Voltage Regulator,NJM78 L06A	A E
IC14	VHiNJM79L06A1	Voltage Regulator,NJM79 L06A	A E
IC101	RH-iX1541AFZZ	Microcomputer,μPD75208	A X
IC102	VHiM51951ASL1	Voltage Regurator,M51951 ASL	A E
IC201	VHiLA1265//-1	AM IF/FM IF DET,LA1265	A K
IC202	VHiLA3401//-1	FM MPX.,LA3401	A K
IC203	VHiLM7001//-1	PLL,LM7001	A L
IC400,401	VHiBA3812L/-1	Graphic Equalizer Circuit, BA3812L	A G
IC403	RH-iX1625AFZZ	Microcomputer,LC6515B	A T
IC404	VHiLB1641//-1	Motor Driver,LB1641	A N
IC551,552	VHiiR2E34//-1	Level Meter Driver,IR2E34	A L
IC570	RH-iX1534AFZZ	Tuner Microcomputer, LC6554H	A V
IC601	RH-iX1252AFZZ	Input Selector,4052	A H
IC602	VHiM5218L//-1	Pre Amp.,M5218L	A G
IC603	RH-iX1473AFZZ	Mechanism Control Microcomputer,IX1473	A X
IC604	VHiM50784SP-1	Input Expander,M50784SP	A K
IC605	VHiTA7354P/-1	Reel Motor Driver,TA7354P	A G
IC606	VHiBA3416BL-1	Playback Epualizer Amp., BA3416BL	A G
IC607	VHiLA2000//-1	APSS,LA2000	A F
IC609	VHiCXA1101P-1	Dolby NR,CXA1101P	A Q
IC610	VHiM51544AL-1	ALC,M51544AL	A G
IC801	VHiSTK4132M-1	Power Amp.,STK4132II	A W
IC901	VHiM5230L//-1	Voltage Regulator,M5230L	A H

TRANSISTORS

REF.NO.	PART NO.	DESCRIPTION	CODE
Q3,4	VSDTC114YK/-1	Digital,NPN,DTC114 YK	A B
Q5,6	VSDTC363TK/-1	Digital,NPN,DTC363 TK	A C
Q8	VSDTA114EK/-1	Digital,PNP,DTA114 EK	A B
Q9,10	VSDTC114YK/-1	Digital,NPN,DTC114 YK	A B
Q12,13	VSDTC114YK/-1	Digital,NPN,DTC114 YK	A B
Q15	VSDTC114YK/-1	Digital,NPN,DTC114 YK	A B
Q16	VS2SA562-Y/-1	Silicon,PNP,2SA562 Y	A C
Q18	VSDTC114YK/-1	Digital,NPN,DTC114 YK	A B
Q101	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q102	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q103	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q104	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q105	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q106	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q107	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q108	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q109	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q110	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q111	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q112	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q113	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q114	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q115	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q116	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q117	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q118	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q119	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q120	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q121	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q122	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q123	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q124	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q125	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q126	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q127	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q128	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q129	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q130	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q131	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q132	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q133	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q134	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q135	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q136	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B

REF.NO.	PART NO.	DESCRIPTION	CODE
Q137	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q138	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q139	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q140	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q201	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q202	VS2SC380-ō/-1	Silicon,NPN,2SC380 O	A C
Q203～205	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q206	VSDTA144WS/-1	Digital,PNP,DTA144 WS	A C
Q207,208	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q209～212	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q213	VS2SC1740LSR1	Silicon,NPN,2SC1740 LSR	A B
Q400	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q402	VS2SB1185E/-1	Silicon,PNP,2SB1185 E	A D
Q403	VS2SC3247J/-1	Silicon,NPN,2SC3247 J	A D
Q405	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q407	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q570	VSDTA144WS/-1	Digital,PNP,DTA144 WS	A C
Q601～604	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q605～610	VS2SB562-C/-1	Silicon,PNP,2SB562 C	A D
Q611	VS2SD1858R3-1	Silicon,NPN,2SD1858 R3	A C
Q612,613	VSDTC144ES/-1	Digital,NPN,DTC144 ES	A B
Q614,615	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q616	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q617	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q618	VS2SC2001-L-1	Silicon,NPN,2SC2001 L	A B
Q619,620	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q621,622	VS2SC2878B/-1	Silicon,NPN,2SC2878 B	A C
Q623～626	VS2SC2603-G-1	Silicon,NPN,2SC2603 G	A B
Q627	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q629,630	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q631	VS2SD1858R3-1	Silicon,NPN,2SD1858 R3	A C
Q632	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q633～635	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q637～640	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q642～646	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q647	VS2SC2785EF-1	Silicon,NPN,2SC2785 EF	A B
Q648～650	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
Q651	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q652	VSDTA144ES/-1	Digital,PNP,DTA144 ES	A B
Q653	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q654	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q655	VSDTA114YS/-1	Digital,PNP,DTA114 YS	A B
Q801,802	VS2SC2878B/-1	Silicon,NPN,2SC2878 B	A C
Q804	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q901	VS2SD2061//-1	Silicon,NPN,2SD2061	A D
Q902	VS2SC2603-F-1	Silicon,NPN,2SC2603 F	A B
Q903	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q904	VS2SD2061//-1	Silicon,NPN,2SD2061	A D
Q905	VS2SC2603-F-1	Silicon,NPN,2SC2603 F	A B
Q906,907	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q908	VS2SD1858R3-1	Silicon,NPN,2SD1858 R3	A C
Q909	VS2SD2061//-1	Silicon,NPN,2SD2061	A D
Q910	VS2SB1185E/-1	Silicon,PNP,2SB1185 E	A D
Q911	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B
Q917	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
Q918	VS2SC3247J/-1	Silicon,NPN,2SC3247 J	A D
Q920	VS2SB1185E/-1	Silicon,PNP,2SB1185 E	A D
Q950	VSDTC114YS/-1	Digital,NPN,DTC114 YS	A B

DIODES

D1	VHD1S2835//-1	Silicon,1S2835	A C
D3,4	VHD1S2837//-1	Silicon,1S2837	A B
D5	VHD1S2076RE-1	Silicon,1S2076RE	A A
D6～9	VHD1S2837//-1	Silicon,1S2837	A B
D10	VHCSVC203//3F	Variable Capacitance, SVC203	A D
D11	VHD1SS108//-1	Silicon,1SS108	A B
D101～103	VHD1SS133//-1	Silicon,1SS133	A A
D105～108	VHD1SS133//-1	Silicon,1SS133	A A
D201～207	VHD1SS133//-1	Silicon,1SS133	A A
D400～406	VHD1SS133//-1	Silicon,1SS133	A A
D570～577	VHD1SS133//-1	Silicon,1SS133	A A
D579	VHD1SS133//-1	Silicon,1SS133	A A
D601,602	VHD1SS133//-1	Silicon,1SS133	A A
D603～606	VHD11ES1///-1	Silicon,11ES1	A B
D607～609	VHD1SS133//-1	Silicon,1SS133	A A
D611,612	VHD1SS133//-1	Silicon,1SS133	A A
D617,618	VHD1SS133//-1	Silicon,1SS133	A A
D620～622	VHD1SS133//-1	Silicon,1SS133	A A
D625～627	VHD1SS133//-1	Silicon,1SS133	A A
D629,630	VHD1SS133//-1	Silicon,1SS133	A A
D902	VHDS4VB20//-1	Rectifier,S4VB20	A G
D903	VHD1SS133//-1	Silicon,1SS133	A A
D905	VHD1SS133//-1	Silicon,1SS133	A A
D906～910	VHD11ES1///-1	Silicon,11ES1	A B
D911,912	VHD11E1TA2/-1	Silicon,11E1	A B
D914,915	VHD11E1TA2/-1	Silicon,11E1	A B
D916,917	VHD1SS133//-1	Silicon,1SS133	A A
D918,919	VHD11ES1///-1	Silicon,11ES1	A B
D950,A	VHD1SS133//-1	Silicon,1SS133	A A
D951,952	VHD1SS133//-1	Silicon,1SS133	A A
LED400	VHPGL2PR6//-1	LED,Red,GL-2PR6	A B
LED401～404	VHPLT5PR21A-1	LED,Red,LT5PR21A	A B
LED404A	————	Part of Ref. No.CNS401	—
LED601	VHPGL2PR6//-1	LED,Red,GL-2PR6	A B
LED602	VHPGL2EG6//-1	LED,Green,GL-2EG6	A B
LED603	VHPGL2PR6//-1	LED,Red,GL-2PR6	A B
LED604,605	VHPGL2EG6//-1	LED,Green,GL-2EG6	A B
LED606	VHPGL2EG6//-1	LED,Green,GL-2EG6	A B
PI701,702	VHPGP-2L09B-1	Photo-interruptor,GP-2L09 B	A G
VD201/202	VHCKV1236Z23F	Variable Capacitance, KV1236Z23F	A S
ZD3	VHERD7R5MB3-1	Zener,7.5V,RD7.5MB3	A B
ZD101	VHERD9R1JS2-1	Zenner,9.1V,RD9.1JS2	A B
ZD400	VHERD5R6JS2-1	Zener,5.6V,RD5.6JS2	A B
ZD401	VHEHZ4BLL//-1	Zener,4V,HZ4BLL	A B
ZD402	VHEHZ18-3L/-1	Zener,18V,HZ18-3L	A B
ZD603	VHERD9R1JS2-1	Zenner,9.1V,RD9.1JS2	A B
ZD604	VHERD5R6JS2-1	Zener,5.6V,RD5.6JS2	A B
ZD606	VHERD3R6ES2-1	Zener,3.6V,RD3.6ES2	A A
ZD607	VHERD5R6JS2-1	Zener,5.6V,RD5.6JS2	A B
ZD901	VHERD130JS2-1	Zener,13V,RD13JS2	A B
ZD902	VHERD6R2JS2-1	Zener,6.2V,RD6.2JS2	A B
ZD903	VHERD130JS2-1	Zener,13V,RD13JS2	A B
ZD908	VHEHZ18-3L/-1	Zener,18V,HZ18-3L	A B
ZD910,911	VHERD7R5JS2-1	Zener,7.5V,RD7.5JS2	A B

FILTERS

CF201,202	RFiLF0072AFZZ	FM IF [For H]	A G
CF201,202	RFiLF0166AFZZ	FM IF [For E]	A C
CF203	RFiLA0094AFZZ	AM,Auto Stop Oscillation	A E
CF204	RCRM-0010AFZZ	Ceramic,456 kHz	A D
CF570	RCRM-0068AFZZ	Ceramic,2 MHz	A E
LPF1,2	RFiLL0086AFZZ	Low Pass Filter	A E

TRANSFORMERS

T201	RFiLA0121AFZZ	AM IF	A F
T202	RCiLD0104AFZZ	FM Detector	A E
T203	RCiLD0105AFZZ	FM Detector	A E
T204	RCiLA1064AFZZ	Antenna,MW	A D
T205	RCiLA1063AFZZ	Antenna,LW	A E
T206	RCiLB1074AFZZ	OSC,MW	A C
T207	RCiLB1073AFZZ	OSC,LW	A C
⚠T900	RTRNP1583AFZZ	Power [For H]	B C
⚠T900	RTRNP1584AFZZ	Power [For E]	B C

COILS

REF.NO.	PART NO.	DESCRIPTION	CODE
L1	RCiLB0724AFZZ	VCO	A D
L101	VP-DH101K0000	100 μH,Choke	A B
L201	RFiLL0075AFZZ	Low Pass Filter [H Only]	A F
L202,203	RCiLL0105AFZZ	MPX. Filter	A E
L204	VP-DH2R2M0000	2.2 μH,Choke	A B
L205	VP-DH101K0000	100 μH,Choke [H Only]	A B
L206	VP-DHR22M0000	0.22 μH,Choke [H Only]	A B
L210	RBLN-0051AFZZ	Balun [H Only]	A L
L400～402	VP-DH101K0000	100 μH,Choke	A B
L601	VP-DH101K0000	100 μH,Choke	A B
L602	RCiLF0089AFZZ	570 μH,Bias Oscillator	A C
L603,604	RCiLZ0143AFZZ	47 mH,Bias Trap	A B
L605,606	VP-MK222K0000	2.2 mH,Choke	A B
L609,610	RCiLC0094AFZZ	6.8 mH	A D
L617	VP-CH101K0000	100 μH,Choke [H Only]	A B
L701,702	VP-CH101K0000	100 μH,Choke	A B
L800,801	VP-DHR27M0000	0.27 μH Choke [H Only]	AB
⚠L900	RCiLZ0216AFZZ	Line Filter	A G
L980～986	RCiLZ0067AFZZ	1.2 μH [H Only]	A D

CONTROLS

TC201	RTō-H1072AFZZ	Trimmer,20 pF FM Oscillation	A C
TC202	RTō-H1069AFZZ	Trimmer,60 pF,AM Antenna	A D
VR1	RVR-M0586AFZZ	10 kohm (B),Semi-VR	A B
VR2	RVR-M0590AFZZ	47 kohms (B),Semi-VR	A B
VR3,4	RVR-M0592AFZZ	100 kohm (B),Semi-VR	A B
VR5	RVR-M0586AFZZ	10 kohm (B),Semi-VR	A B
VR201,202	RVR-M0614AFZZ	50 kohms (B),Semi-VR	A B
VR401～404	RVR-W0039AFZZ	100 kohm (B) [GRAPHIC EQ.]	A E
⚠VR404A	RVR-Z0279AFZZ	100 kohm (B),Main Volume with Motor	A W
VR601～604	RVR-M0614AFZZ	50 kohms (B),Semi-VR	A B

VIBRATORS

X1	RCRSB0128AFZZ	Crystal,8.6436 MHz	A F
X201	RCRSB0146AFZZ	Crystal,7.2 MHz	A H
XL101	RCRM-0069AFZZ	Ceramic,4.19 MHz	A D
XL400	RCRM-0050AFZZ	Ceramic,1 MHz	A E
XL401	RCRSP0051AFZZ	Crystal,32.768 kHz	A K
XL601	RCRM-0018AFZZ	Ceramic,4.00 MHz	A D

CAPACITORS

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;

A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."

- Semiconductor type capacitor:

A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).

(Tubular type ceramic capacitor is identified by the symbol TV(TQ/CY) of the part NO. VC00TV(TQ/CY)0000000; this TV(TQ/CY) does not mean the lead wire.)

(Tubular type ceramic capacitor is identified by the symbol MF(MN) of the part NO. VC00MF(MN)0000000; this MF(MN) does not mean the lead wire.)

Unless otherwise specified, electrolytic capacitors are ±20% type.

C1,2	RC-GZA337AF1C	330 μF,16V,Electrolytic	A C
C3,4	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C5,6	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C7,8	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C9	RC-EZY476AF1C	47 μF,16V,Electrolytic	A B
C10	VCTYMF1NY333N	0.033 μF,12V	A A
C13,14	VCCCMF1HH2R7C	2.7 pF (CH),50V	A A
C15,16	VCTYMF1NY333N	0.033 μF,12V	A A
C17,18	VCFYHA1HA823J	0.082 μF,50V,Thin Film	A B
C19,20	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C21,22	VCTYMF1HV472K	0.0047 μF,50V	A A
C23,24	VCTYMF1EX682K	0.0068 μF,25V	A A
C27,28	VCE9AA1CF106M	10 μF,16V,Electrolytic,Non-polar	A B
C30,31	VCCCMF1HH180J	18 pF (CH),50V	A A
C32	VCTYMF1EX103K	0.01 μF,25V	A A
C33	VCKYMF1HB471K	470 pF,50V	A A
C34	VCTYMF1EX103K	0.01 μF,25V	A A
C35	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C36	RC-EZD105AF1H	1 μF,50V,Electrolytic	A B
C37	VCTYMF1EX153M	0.015 μF,25V	A A
C38	VCTYMF1EX682K	0.0068 μF,25V	A A
C39,40	VCCSMF1HL680J	68 pF,50V	A A
C41	VCTYMF1HV152K	0.0015 μF,50V	A A
C42	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C43	VCTYMF1HV272M	0.0027 μF,50V	A A
C44	VCCSMF1HL560J	56 pF,50V	A A
C45	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C46,47	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C48,49	VCCCMF1HH390J	39 pF (CH),50V	A A
C50	VCTYMF1EX103K	0.01 μF,25V	A A
C51	VCKYMF1HB102K	0.001 μF,50V	A A
C52	VCFYHA1HA823J	0.082 μF,50V,Thin Film	A B
C53	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C54	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C56	VCKYMF1HB471K	470 pF,50V	A A
C57	RC-GZA104AF1H	0.1 μF,50V,Electrolytic	A B
C58	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C59	VCTYMF1NY333N	0.033 μF,12V	A A
C60	VCCSMF1HL220J	22 pF,50V	A A
C61	RC-GZA104AF1H	0.1 μF,50V,Electrolytic	A B
C62	VCTYPA1CX104K	0.1 μF,16V	A B
C63	VCKYMF1HB471K	470 pF,50V	A A
C64	VCCSMF1HL1R0C	1 pF,50V	A A
C65	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C66	VCCSMF1HL680J	68 pF,50V	A A
C67	VCCSMF1HL270J	27 pF,50V	A A
C68	VCTYPA1CX104K	0.1 μF,16V	A B
C69	VCKYMF1HB102K	0.001 μF,50V	A A
C70	VCKYTV1EF104Z	0.1 μF,25V	A A
C71	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C72	RC-GZA227AF0J	220 μF,6.3V,Electrolytic	A B
C73	RC-GZA335AF1H	3.3 μF,50V,Electrolytic	A B
C74	VCTYMF1HV222K	0.0022 μF,50V	A A
C75	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C76	VCKYTV1EF104Z	0.1 μF,25V	A A
C77	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C78	VCTYMF1HV222K	0.0022 μF,50V	A A
C79	VCTYMF1EX123K	0.012 μF,25V	A A
C80	RC-GZA226AF0C	22 μF,16V,Electrolytic	A B
C81,82	VCTYMF1NY333N	0.033 μF,12V	A A
C83	VCCSMF1HL101J	100 pF,50V	A A
C84,85	VCKYMF1HB122K	0.0012 μF,50V	A A
C86	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C88	VCTYMF1NY333N	0.033 μF,12V	A A
C90	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C91	VCKYTV1EB393K	0.039 μF,25V	A B
C92	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C93	VCTYMF1EX103K	0.01 μF,25V	A A
C94	VCCSMF1HL101J	100 pF,50V	A A
C95	VCCSPA1HL151J	150 pF,50V	A A
C101,102	VCCSPA1HL330J	33 pF,50V	A A
C104	VCCSPA1HL681J	680 pF,50V	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
C105~108	VCKYBT1HB101K	100 pF,50V	A A
C109	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C110	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C111	RC-GZA107AF0J	100 μF,6.3V,Electrolytic	A B
C201	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C202	VCTYMN1EF223Z	0.022 μF,25V	A A
C203	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C204	VCTYMN1EF223Z	0.022 μF,25V	A A
C205	VCCSBT1HL330J	33 pF,50V	A A
C206	VCTYMN1EF223Z	0.022 μF,25V	A A
C207	VCKYMN1HB101K	100 pF,50V	A A
C208~210	VCTYMN1EF223Z	0.022 μF,25V	A A
C212	VCCSMN1HL330J	33 pF,50V [H Only]	A A
C213~215	VCTYMN1EF223Z	0.022 μF,25V	A A
C216	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C217,218	VCTYMN1EF223Z	0.022 μF,25V	A A
C219	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C220	VCKYMN1HB151K	150 pF,50V	A A
C221,222	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C223,224	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C225	VCTYMN1CX222K	0.0022 μF,16V	A A
C226	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C227	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C228	VCTYMN1EF223Z	0.022 μF,25V	A A
C229	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C230,231	VCTYMN1EF223Z	0.022 μF,25V	A A
C232	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C233	VCTYMN1CY103M	0.01 μF,16V	A A
C234	VCKYMN1HB101K	100 pF,50V	A A
C235	VCCSMN1HL680J	68 pF,50V [H Only]	A A
C236	VCCSMN1HL220J	22 pF,50V [H Only]	A A
C237	VCKYMN1HB102K	0.001 μF,50V	A A
C238	VCTYPA1CX473K	0.047 μF,16V	A A
C239	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C240	RC-QZA471AFYJ	470 pF,50V,Mylar [For E]	A B
C240	RC-QZA561AFYJ	560 pF,50V,Mylar [For H]	A B
C241	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C242	VCTYPA1CX332J	0.0033 μF,16V	A A
C243	RC-QZA561AFYJ	560 pF,50V,Mylar	A B
C244	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C245	VCTYPA1CX332J	0.0033 μF,16V	A A
C246	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C247~249	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C250	RC-GZA224AF1H	0.22 μF,50V,Electrolytic	A A
C251	VCTYMN1EF223Z	0.022 μF,25V	A A
C252	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C253	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C254	VCFYKA1HA334J	0.33 μF,50V,Thin Film	A C
C255	VCKYMN1HB102K	0.001 μF,50V	A A
C256,257	VCTYMN1EF223Z	0.022 μF,25V	A A
C258	RC-GZA107AF0J	100 μF,6.3V,Electrolytic	A B
C259	VCCCMN1HH180J	18 pF (CH),50V	A A
C260	VCCCMN1HH150J	15 pF (CH),50V	A A
C261	VCTYMN1EF223Z	0.022 μF,25V	A A
C262	VCKZPV1HF473Z	0.047 μF,50V	A A
C265	VCTYMN1EF223Z	0.022 μF,25V	A A
C266	VCCUMN1HJ270J	27 pF (UJ),50V	A A
C267	VCCCMN1HH180J	18 pF (CH),50V	A A
C268	VCQSMA1HL471J	470 pF,50V,Styrol	A B
C269	VCCCMN1HH180J	18 pF (CH),50V	A A
C270	VCQSMA1HL681J	680 pF,50V,Styrol	A B
C271	VCCUMN1HJ270J	27 pF (UJ),50V	A A
C272	VCQSMA1HL221J	220 pF,50V,Styrol	A B
C273	VCTYMN1EF223Z	0.022 μF,25V	A A
C274	RC-GZV228AF0J	2200 μF,6.3V,Electrolytic	A D
C275	VCTYMN1CX222K	0.0022 μF,16V	A A
C277	VCTYMN1EF223Z	0.022 μF,25V [H Only]	A A
C278	RC-GZA104AF1H	0.1 μF,50V,Electrolytic	A B
C279,281	VCTYMN1EF223Z	0.022 μF,25V	A A
C280,282	VCTYMN1EF223Z	0.022 μF,25V [H Only]	A A
C400,401	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C402,403	VCTYPA1EX223J	0.022 μF,25V	A B
C404,405	RC-GZA155AF1H	1.5 μF,50V,Electrolytic	A A
C406,407	VCTYPA1EX392J	0.0039 μF,25V	A A
C408,409	RC-GZA334AF1H	0.33 μF,50V,Electrolytic	A A
C410,411	VCTYPA1EX122J	0.0012 μF,25V	A A
C412,413	VCTYPA1EX683J	0.068 μF,25V	A B
C414	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C415	VCTYPA1EX273J	0.027 μF,25V	A B
C416,417	RC-GZA155AF1H	1.5 μF,50V,Electrolytic	A A
C418,419	VCCSPA1HL221J	220 pF,50V	A A
C420,421	VCTYPA1EX153J	0.015 μF,25V	A B
C423	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C425	VCTYPA1EX102J	0.001 μF,25V	A B
C425A	VCTYPA1EX393J	0.039 μF,25V	A B
C426	VCTYPA1EX273J	0.027 μF,25V	A B
C426A	VCTYPA1EX393J	0.039 μF,25V	A B
C427	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C428	VCTYPA1EX102J	0.001 μF,25V	A B
C429	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C451,452	VCKZPA1HF473Z	0.047 μF,50V	A A
C453	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C453A	RC-GZA107AF1V	100 μF,35V,Electrolytic	A B
C454	RC-GZA106AF1H	10 μF,50V,Electrolytic	A B
C455	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C456	VCKZPA1HF473Z	0.047 μF,50V	A A
C456A	RC-GZA476AF1A	47 μF,10V,Electrolytic	A B
C457,458	VCKYBT1HB101J	100 pF,50V	A A
C460,461	VCKZPA1HF473Z	0.047 μF,50V	A A
C461A	VCKZPA1HF223Z	0.022 μF,50V	A A
C462	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C462A	VCTYBT1EF223Z	0.022 μF,25V	A A
C463	VCKZPA1HF473Z	0.047 μF,50V	A A
C465,466	VCCCPU1HH220J	22 pF (CH),50V	A A
C473	VCKZPA1HF223Z	0.022 μF,50V	A A
C500	VCKZPA1HF473Z	0.047 μF,50V	A A
C520	RC-GZS227AF0J	220 μF,6.3V,Electrolytic	A B
C550	RC-EZD155AF1H	1.5μF,50V,Electrolytic	A B
C551	RC-EZY104AF1H	0.1 μF,50V,Electrolytic	A B
C552	RC-EZD106AF1C	10 μF,16V,Electrolytic	A B
C553,554	VCKYBT1HB681K	680 pF,50V	A A
C555	RC-EZD106AF1C	10 μF,16V,Electrolytic	A B
C556,557	RC-EZY475AF1E	4.7 μF,25V,Electrolytic	A B
C560	RC-EZY104AF1H	0.1 μF,50V,Electrolytic	A B
C561	RC-EZD155AF1H	1.5μF,50V,Electrolytic	A B
C562	RC-EZY107AF1A	100 μF,10V,Electrolytic	A B
C570,571	VCCSPA1HL330J	33 pF,50V	A A
C572	RC-EZY224AF1H	0.22 μF,50V,Electrolytic	A B
C573	VCKZPA1HF103Z	0.01 μF,50V	A A
C574,575	VCKZPA1HF473Z	0.047 μF,50V	A A
C576	RC-EZY107AF0J	100 μF,6.3V,Electrolytic	A B
C592,593	VCKZPA1HF473Z	0.047 μF,50V	A A
C598,599	RC-EZY105AF1H	1 μF,50V,Electrolytic	A B
C601	VCTYBT1EF223Z	0.022 μF,25V	A A
C602	VCKZPA1HF223Z	0.022 μF,50V	A A
C603~606	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C607,608	VCCSPA1HL151J	150 pF,50V	A A
C609,610	VCCSPA1HL330J	33 pF,50V	A A
C611,612	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C613,614	VCKZPA1HF473Z	0.047 μF,50V	A A
C615	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C616	RC-GZA477AF0J	470 μF,6.3V,Electrolytic	A B
C617	VCKZPA1HF223Z	0.022 μF,50V	A A
C618,619	VCCSPA1HL330J	33 pF,50V	A A
C620	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C621	VCKZPA1HF223Z	0.022 μF,50V	A A
C624	RC-EZ1248AFZZ	2200 μF,16V,Electolytic	A E
C625	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C626	VCKZPA1HF223Z	0.022 μF,50V	A A
C627,628	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
C629	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C630	RC-GZA227AF1C	220 μF,16V,Electrolytic	A B
C631,632	VCTYPU1EX102J	0.001 μF,25V	A A
C633,634	VCTYPU1EX152J	0.0015 μF,25V	A A
C635,636	RC-GZA227AF0J	220 μF,6.3V,Electrolytic	A B
C637	VCTYPV1EX223J	0.022 μF,25V	A A
C638	VCTYPA1EX223J	0.022 μF,25V	A B
C639,640	VCCSPV1HL151J	150 pF,50V	A A
C641,642	VCCSPA1HL151J	150 pF,50V	A A
C643,644	RC-GZA335AF1H	3.3 μF,50V,Electrolytic	A B
C645,646	VCTYPA1EX393J	0.039 μF,25V	A B
C647,648	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C649	VCFYHU1HA104K	0.1 μF,50V,Thin Film	A B
C650	VCTYPA1EX272J	0.0027 μF,25V	A A
C651	RC-GZA334AF1H	0.33 μF,50V,Electrolytic	A A
C652	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C653	RC-GZA336AF1C	33 μF,16V,Electrolytic	A B
C654	VCCSPA1HL561J	560 pF,50V	A A
C655,656	VCCSPA1HL221J	220 pF,50V	A A
C658	VCKZPA1HF223Z	0.022 μF,50V	A A
C659,660	VCCSPA1HL561J	560 pF,50V	A A
C661,662	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C663	VCFYHU1HA473J	0.047 μF,50V,Thin Film	A B
C664	VCQYVU1HA822J	0.0082 μF,50V,Mylar	A A
C665	VCQYKA1HM473J	0.047 μF,50V,Mylar	A B
C666	RC-GZA335AF1H	3.3 μF,50V,Electrolytic	A B
C667	VCKZPA1HF223Z	0.022 μF,50V	A A
C668	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C669,670	VCTYPA1CX473J	0.047 μF,16V	A A
C671	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C673,674	VCTYPA1EX393J	0.039 μF,25V	A B
C675,676	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C677,678	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C679,680	VCFYHU1HA104K	0.1 μF,50V,Thin Film	A B
C685,686	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C687	RC-GZA684AF1H	0.68 μF,50V,Electrolytic	A B
C688	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C689	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C690	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C690B,C	VCKZPU1HF473Z	0.047 μF,50V [H Only]	A A
C690D,E	VCCSPV1HL471J	470 pF,50V [H Only]	A A
C691	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C692	RC-GZA684AF1H	0.68 μF,50V,Electrolytic	A B
C693	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C694,695	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C696	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C700	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C701	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C701A	VCKZPU1HF223Z	0.022 μF,50V	A A
C702	RC-GZA475AF1E	4.7 μF,25V,Electrolytic	A B
C703	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C704	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C705,706	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C707,708	VCCSPA1HL151J	150 pF,50V	A A
C709,710	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C713	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C714	VCTYPA1EX222J	0.0022 μF,25V	A A
C715	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C716	RC-GZA225AF1H	2.2 μF,50V,Electrolytic	A B
C718	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C718A	RC-GZV225AF1H	2.2 μF,50V,Electrolytic	A A
C719,720	VCCSPA1HL391J	390 pF,50V	A A
C723	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C724	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C741,742	VCKZPA1HF223Z	0.022 μF,50V	A A
C743	VCKZPA1HF223Z	0.022 μF,50V	A A
C744	VCTYPA1EX152J	0.0015 μF,25V	A A
C745	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C755	VCCSPV1HL221J	220 pF,50V [H Only]	A A
C756	VCKYBT1HB221K	220 pF,50V [H Only]	A A
C757	VCCSPV1HL221J	220 pF,50V [H Only]	A A
C758	VCKYBT1HB221K	220 pF,50V [H Only]	A A
C790D,E,F	VCKZPU1HF473Z	0.047 μF,50V [H Only]	A A
C801,802	RC-GZA335AF1H	3.3 μF,50V,Electrolytic	A B
C803,804	VCCSPA1HL151J	150 pF,50V	A A
C805	VCCSPA1HL331J	330 pF,50V	A A
C805A	VCKZPU1HF473Z	0.047 μF,50V [H Only]	A A
C806	VCCSPA1HL331J	330 pF,50V	A A
C807	VCCSBT1HL470J	47 pF,50V	A A
C807A	VCKZPV1HF473Z	0.047 μF,50V [H Only]	A B
C808	VCCSBT1HL470J	47 pF,50V	A A
C809,810	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C811,812	RC-GZA476AF1H	47 μF,50V,Electrolytic	A B
C813	VCKZPA1HF473Z	0.047 μF,50V	A A
C815	RC-GZA106AF1H	10 μF,50V,Electrolytic	A B
C816	RC-GZA476AF1H	47 μF,50V,Electrolytic	A B
C816A	VCKZPU1HF473Z	0.047 μF,50V [H Only]	A A
C817	RC-GZA476AF1H	47 μF,50V,Electrolytic	A B
C818	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C820	VCKZPA1HF473Z	0.047 μF,50V	A A
C821	RC-GZA476AF1V	47 μF,35V,Electrolytic	A B
C900A,B	VCKZPV1HF473Z	0.047 μF,50V [H Only]	A B
C901	RC-GZA476AF1C	47 μF,16V,Electrolytic	A B
C902	RC-GZA476AF1E	47 μF,25V,Electrolytic	A B
C904	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C906	RC-GZA337AF1E	330 μF,25V,Electrolytic	A C
C907	RC-GZW338AF1E	3300 μF,25V,Electrolytic	A G
C908	RC-GZW228AF1E	2200 μF,25V,Electrolytic	A E
C909	VCKZPA1HF223Z	0.022 μF,50V	A A
C910	RC-GZA226AF1H	22 μF,50V,Electrolytic	A B
C911,912	RC-GZA475AF1H	4.7 μF,50V,Electrolytic	A B
C913	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C914	VCKZPA1HF473Z	0.047 μF,50V	A A
C915	RC-GZV228AF1C	2200 μF,16V,Electrolytic	A G
C916	RC-GZA106AF1H	10 μF,50V,Electrolytic	A B
C917	VCKZPA1HF223Z	0.022 μF,50V	A A
C918	RC-GZW338AF1V	3300 μF,35V,Electrolytic	A H
C918A,B	VCKZPU1HF473Z	0.047 μF,50V [H Only]	A A
C919	RC-GZW338AF1V	3300 μF,35V,Electrolytic	A H
C931	RC-GZV227AF1H	220 μF,50V,Electrolytic	A C
C934,935	VCFYHA1HA224J	0.22 μF,50V,Thin Film	A C
⚠C936	RC-FZ077CAFZZ	0.047 μF,250V,Metallized Plastic	A E
C938A	RC-GZA107AF1E	100 μF,25V,Electrolytic	A B
C939,940	VCKZPA1HF223Z	0.022 μF,50V	A A
C943	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C945,946	RC-GZA106AF1H	10 μF,50V,Electrolytic	A B
C960,961	RC-GZA106AF1H	10 μF,50V,Electrolytic	A B
C962	VCKZPA1HF223Z	0.022 μF,50V	A A
C963,964	VCKZPV1HF223Z	0.022 μF,50V	A A
C970	VCKZPA1HF103Z	0.01 μF,50V [H Only]	A A
C970A	RC-GZA476AF1E	47 μF,25V,Electrolytic	A B
C971~975	VCKZPA1HF103Z	0.01 μF,50V [H Only]	A A
C971A	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C977	VCKZPA1HF223Z	0.022 μF,50V [H Only]	A A
C978,979	VCKZPA1HF103Z	0.01 μF,50V [H Only]	A A
C980,981	VCKZPA1HF223Z	0.022 μF,50V	A A
C982~987	VCKZPA1HF103Z	0.01 μF,50V [H Only]	A A
C988	VCKZPA1HF223Z	0.022 μF,50V [H Only]	A A
C990,991	VCKZPA1HF103Z	0.01 μF,50V [H Only]	A A

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol TV(TQ/CY) of the part NO. VRS—TV(TQ/CY)0000000; this TV(TQ/CY) does not mean lead wire.)
(Tubular type carbon film resistor ±5% is identified the symbol MF(MN) of the part NO. VRD—MF(MN)0000000; this MF(MN) does not mean lead wire.)

	VRD-MF2EE000C	0 ohm,Jumper,φ2.2×5.9mm	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
	VRD-MN2BD000C	0 ohm, Jumper	A A
R4,5	VRD-MF2EE103J	10 kohm,1/4W	A A
R6,7	VRD-MF2EE471J	470 ohms,1/4W	A A
R10,11	VRD-MF2EE151J	150 ohms,1/4W	A A
R12～15	VRD-MF2EE102J	1 kohm,1/4W	A A
R16,17	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R18,19	VRD-MF2EE563J	56 kohms,1/4W	A A
R20,21	VRD-MF2EE473J	47 kohms,1/4W	A A
R22,23	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R24,25	VRD-MF2EE104J	100 kohm,1/4W	A A
R26	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R28	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R29,30	VRD-MF2EE223J	22 kohms,1/4W	A A
R31	VRD-MF2EE104J	100 kohm,1/4W	A A
R32～34	VRD-MF2EE563J	56 kohms,1/4W	A A
R35	VRD-MF2EE683J	68 kohms,1/4W	A A
R36	VRD-MF2EE225J	2.2 Mohms,1/4W	A A
R37	VRD-MF2EE103J	10 kohm,1/4W	A A
R38	VRD-MF2EE221J	220 ohms,1/4W	A A
R39	VRD-MF2EE821J	820 ohms,1/4W	A A
R40,41	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R42～44	VRD-MF2EE103J	10 kohm,1/4W	A A
R45	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R46	VRD-MF2EE273J	27 kohms,1/4W	A A
R47	VRD-MF2EE104J	100 kohm,1/4W	A A
R48	VRD-MF2EE274J	270 kohms,1/4W	A A
R49	VRD-MF2EE153J	15 kohms,1/4W	A A
R50	VRD-MF2EE223J	22 kohms,1/4W	A A
R51	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R52	VRD-MF2EE331J	330 ohms,1/4W	A A
R53	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R54	VRD-MF2EE104J	100 kohm,1/4W	A A
R55	VRD-MF2EE274J	270 kohms,1/4W	A A
R62	VRD-MF2EE154J	150 kohms,1/4W	A A
R63	VRD-MF2EE102J	1 kohm,1/4W	A A
R64	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R65	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R66	VRD-MF2EE273J	27 kohms,1/4W	A A
R67	VRD-MF2EE471J	470 ohms,1/4W	A A
R68	VRD-MF2EE154J	150 kohms,1/4W	A A
R69	VRD-MF2EE564J	560 kohms,1/4W	A A
R70	VRD-MF2EE124J	120 kohms,1/4W	A A
R71	VRD-MF2EE104J	100 kohm,1/4W	A A
R72	VRD-MF2EE102J	1 kohm,1/4W	A A
R73	VRD-MF2EE681J	680 ohms,1/4W	A A
R74	VRD-MF2EE333J	33 kohms,1/4W	A A
R75	VRD-MF2EE101J	100 ohm,1/4W	A A
R76	VRD-MF2EE333J	33 kohms,1/4W	A A
R77	VRD-MF2EE124J	120 kohms,1/4W	A A
R78	VRD-MF2EE274J	270 kohms,1/4W	A A
R79	VRD-MF2EE683J	68 kohms,1/4W	A A
R80	VRD-MF2EE223J	22 kohms,1/4W	A A
R82	VRD-MF2EE471J	470 ohms,1/4W	A A
R83	VRD-MF2EE223J	22 kohms,1/4W	A A
R84	VRD-MF2EE473J	47 kohms,1/4W	A A
R85	VRD-MF2EE154J	150 kohms,1/4W	A A
R86	VRD-MF2EE1R2J	1.2 ohms,1/4W	A A
R87	VRD-MF2EE2R2J	2.2 ohms,1/4W	A A
R88	VRD-MF2EE274J	270 kohms,1/4W	A A
R89	VRD-MF2EE273J	27 kohms,1/4W	A A
R91	VRD-MF2EE2R2J	2.2 ohms,1/4W	A A
R92	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R93	VRD-MF2EE123J	12 kohms,1/4W	A A
R94	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R95	VRD-MF2EE681J	680 ohms,1/4W	A A
R96	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R97	VRD-MF2EE103J	10 kohm,1/4W	A A
R98	VRD-MF2EE2R2J	2.2 ohms,1/4W	A A
R99	VRD-MF2EE224J	220 kohms,1/4W	A A
R136～138	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R139～141	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R141A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R142	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R143～146	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R147,148	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R150	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R151	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R152～155	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R158	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R159～162	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R164	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R170～189	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R200	VRD-MN2BD104J	100 kohm,1/8W	A A
R201	VRD-MN2BD124J	120 kohms,1/8W	A A
R202	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R203	VRD-MN2BD331J	330 ohms,1/8W	A A
R204	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R205	VRD-MN2BD334J	330 kohms,1/8W	A A
R206,207	VRD-MN2BD331J	330 ohms,1/8W	A A
R209	VRD-MN2BD101J	100 ohm,1/8W	A A
R210	VRD-MN2BD222J	2.2 kohms,1/8W	A A
R211,212	VRD-MN2BD472J	4.7 kohms,1/8W	A A
R213,214	VRD-MN2BD104J	100 kohm,1/8W	A A
R215	VRD-MN2BD683J	68 kohms,1/8W	A A
R216	VRD-MN2BD562J	5.6 kohms,1/8W	A A
R217	VRN-RT2CK562J	5.6 kohms,1/6W,Metal Film	A A
R218	VRD-MN2BD562J	5.6 kohms,1/8W	A A
R219	VRD-MN2BD104J	100 kohm,1/8W	A A
R221	VRD-MN2BD682J	6.8 kohms,1/8W	A A
R222	VRD-MN2BD683J	68 kohms,1/8W	A A
R223	VRD-MN2BD822J	8.2 kohms,1/8W	A A
R224	VRD-ST2EE151J	150 ohms,1/4W	A A
R225	VRD-MN2BD332J	3.3 kohms,1/8W	A A
R226	VRD-MN2BD392J	3.9 kohms,1/8W	A A
R227	VRD-MN2BD562J	5.6 kohms,1/8W	A A
R228	VRD-MN2BD103J	10 kohm,1/8W	A A
R229	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R230	VRD-MN2BD272J	2.7 kohms,1/8W	A A
R231	VRD-MN2BD820J	82 ohms,1/8W	A A
R232,233	VRD-MN2BD103J	10 kohm,1/8W	A A
R234	VRD-MN2BD682J	6.8 kohms,1/8W	A A
R236	VRD-MN2BD273J	27 kohms,1/8W	A A
R237	VRD-MN2BD102J	1 kohm,1/8W	A A
R238	VRD-MN2BD223J	22 kohms,1/8W [For H]	A A
R238	VRD-MN2BD274J	270 kohms,1/8W [For E]	A A
R239,240	VRD-MN2BD124J	120 kohms,1/8W	A A
R241	VRD-MN2BD102J	1 kohm,1/8W	A A
R242,243	VRD-MN2BD124J	120 kohms,1/8W	A A
R244	VRD-MN2BD102J	1 kohm,1/8W	A A
R245	VRN-RT2CK823J	82 kohms,1/6W,Metal Film	A A
R246	VRD-MN2BD562J	5.6 kohms,1/8W	A A
R247,248	VRD-MN2BD222J	2.2 kohms,1/8W	A A
R249,250	VRD-MN2BD332J	3.3 kohms,1/8W	A A
R251	VRD-MN2BD102J	1 kohm,1/8W	A A
R253	VRD-MN2BD272J	2.7 kohms,1/8W	A A
R254	VRD-MN2BD103J	10 kohm,1/8W	A A
R256	VRD-ST2EE151J	150 ohms,1/4W	A A
R257～259	VRD-MN2BD104J	100 kohm,1/8W	A A
R260	VRD-MN2BD222J	2.2 kohms,1/8W	A A
R261	VRD-MN2BD103J	10 kohm,1/8W	A A
R262	VRD-MN2BD333J	33 kohms,1/8W	A A
R263	VRD-MN2BD103J	10 kohm,1/8W	A A
R265	VRD-MN2BD103J	10 kohm,1/8W	A A
R266	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R267	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R269,270	VRD-MN2BD471J	470 ohms,1/8W	A A
R271,272	VRD-MN2BD102J	1 kohm,1/8W	A A
R273	VRD-MN2BD223J	22 kohms,1/8W	A A
R275	VRD-MN2BD332J	3.3 kohms,1/8W	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R276	VRD-MN2BD331J	330 ohms,1/8W	A A
R277	VRD-MN2BD103J	10 kohm,1/8W	A A
⚠R401	VRG-ST2EC100J	10 ohm,1/4W,Fusible	A B
R403～406	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R407～410	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R411	VRD-ST2EE221J	220 ohms,1/4W	A A
R412,413	VRN-RT2CK273J	27 kohms,1/6W,Metal Film	A A
R421～424	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R425	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R450	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R454	VRD-RT2HD102J	1 kohm,1/2W	A A
R456	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R459	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R460	VRD-SU2CD475J	4.7 Mohms,1/6W	A A
R461	VRD-SU2CD274J	270 kohms,1/6W	A A
R462～464	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R469	VRD-SU2CD152J	1.5 kohms,1/6W	A A
R470	VRD-SU2CD105J	1 Mohm,1/6W	A A
R472～474	VRD-RT2HD821J	820 ohms,1/2W	A A
R475	RMPTC0118AFZZ	Array,48 kohms×3	A B
R476	VRD-SU2CD473J	47 kohms,1/6W	A A
R478	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R480	VRD-SU2CD473J	47 kohms,1/6W	A A
R486,487	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R489	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R490	VRN-RT2CK272J	2.7 kohms,1/6W,Metal Film	A A
R491,492	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R495,496	VRN-RT2CK393J	39 kohms,1/6W,Metal Film	A A
R500	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
⚠R503	VRG-ST2EC220J	22 ohms,1/4W,Fusible	A B
R504	VRD-RT2HD102J	1 kohm,1/2W	A A
R551～554	VRN-RT2CK124J	120 kohms,1/6W,Metal Film	A A
R556	VRD-ST2EE331J	330 ohms,1/4W	A A
R580～583	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R584～590	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R591	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
⚠R592,593	VRG-ST2ED4R7J	4.7 ohms,1/4W,Fusible	A B
R594	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R599	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R601	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R601A	VRD-ST2CD1R0J	1 ohm,1/6W	A A
R602	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R602A	VRN-RT2CK123J	12 kohms,1/6W,Metal Film	A A
R603	VRN-RT2CK682J	6.8 kohms,1/6W,Metal Film	A A
R603A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R604	VRN-RT2CK682J	6.8 kohms,1/6W,Metal Film	A A
R604A	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R605	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R605A	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R606	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R606A	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R607	VRN-RT2CK123J	12 kohms,1/6W,Metal Film	A A
R607A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R608	VRN-RT2CK123J	12 kohms,1/6W,Metal Film	A A
R608A	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R609,610	VRN-RT2CK152J	1.5 kohms,1/6W,Metal Film	A A
R610A	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R611	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R611A	VRN-RT2CK182J	1.8 kohms,1/6W,Metal Film	A A
R612	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R612A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R613A	VRN-RT2CK123J	12 kohms,1/6W,Metal Film	A A
R614A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R615,616	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R617	VRN-RT2CK683J	68 kohms,1/6W,Metal Film	A A
R617A	VRD-ST2CD475J	4.7 Mohms,1/6W	A A
R618	VRN-RT2CK683J	68 kohms,1/6W,Metal Film	A A
R618A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R619,620	VRN-RT2CK183J	18 kohms,1/6W,Metal Film	A A
R621～624	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R625,626	VRN-RT2CK822J	8.2 kohms,1/6W,Metal Film	A A
R631	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R632A	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R634	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R635	VRN-RT2CK223J	22 kohms,1/6W,Metal Film	A A
R636A	VRN-RT2CK105J	1 Mohm,1/6W,Metal Film	A A
R637	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R637A	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R637B	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R638	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R638A	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R639	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R639A	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R640	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R640A	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R641,642	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R642A	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R643	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R643A	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R644,A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R645	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R645A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R646	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R646A	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R647	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R647A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R648～650	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R650A	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R651,652	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R653,A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R654～656	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R657,658	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R658A	VRN-RT2CK683J	68 kohms,1/6W,Metal Film	A A
R659	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R659A	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R660	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R660A	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R661	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R661A	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R662A	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R664	VRD-ST2EE681J	680 ohms,1/4W	A A
R665	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R665A	VRD-SU2CD104J	100 kohm,1/6W	A A
R666	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R667	VRS-PU3DE220J	22 ohms,2W,Metal Oxide Film	A B
R668	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R669	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R670	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R670A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R671	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R672	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R673	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R675	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R676	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R676A	VRS-PU3DE220J	22 ohms,2W,Metal Oxide Film	A B
R677	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R678	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R679	VRN-RT2CK561J	560 ohms,1/6W,Metal Film	A A
R680,681	VRN-RT2CK223J	22 kohms,1/6W,Metal Film	A A
R682,683	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R683A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film [H Only]	A A
R684	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R684A	VRN-RT2CK102J	1 kohm,1/6W,Metal Film [H Only]	A A
R685	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R686,687	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R688	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R689	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R690	VRD-ST2CD471J	470 ohms,1/6W	A A
R690C,D	VRN-RT2CK682J	6.8 kohms,1/6W,Metal Film	A A
R691	VRD-ST2CD471J	470 ohms,1/6W	A A
R692	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R693,694	VRN-RT2CK101J	100 ohm,1/6W,Metal Film	A A
R695,696	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R697,698	VRN-RT2CK560J	56 ohms,1/6W,Metal Film	A A
R699,700	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R701,702	VRN-RT2CK562J	5.6 kohms,1/6W,Metal Film	A A
R703,704	VRN-RT2CK223J	22 kohms,1/6W,Metal Film	A A
R705,706	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R707,708	VRN-RT2CK182J	1.8 kohms,1/6W,Metal Film	A A
R709,710	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R711	VRN-RT2CK223J	22 kohms,1/6W,Metal Film	A A
R712	VRD-ST2EE391J	390 ohms,1/4W	A A
R713	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R714	VRN-RT2CK272J	2.7 kohms,1/6W,Metal Film	A A
R715,716	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R717,718	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R719,720	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R721,722	VRN-RT2CK682J	6.8 kohms,1/6W,Metal Film	A A
R723	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R725	VRN-RT2CK100J	10 ohm,1/6W,Metal Film	A A
R726	VRN-RT2CK822J	8.2 kohms,1/6W,Metal Film	A A
R728	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R729	VRD-ST2CD202J	2 kohms,1/6W	A A
R730	VRD-ST2EE221J	220 ohms,1/4W	A A
R731,732	VRN-RT2CK182J	1.8 kohms,1/6W,Metal Film	A A
R733,734	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R735,736	VRN-RT2CK220J	22 ohms,1/6W,Metal Film	A A
R737,738	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R739,740	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R741,742	VRN-RT2CK681J	680 ohms,1/6W,Metal Film	A A
R743,744	VRN-RT2CK684J	680 kohms,1/6W,Metal Film	A A
R745,746	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R747,748	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R749,750	VRN-RT2CK105J	1 Mohm,1/6W,Metal Film	A A
R751,752	VRN-RT2CK682J	6.8 kohms,1/6W,Metal Film	A A
R753,754	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R755	VRN-RT2CK184J	180 kohms,1/6W,Metal Film	A A
R756	VRD-ST2EE391J	390 ohms,1/4W	A A
R767,768	VRN-RT2CK123J	12 kohms,1/6W,Metal Film	A A
R769,770	VRD-ST2CD202J	2 kohms,1/6W	A A
R771	VRD-ST2CD433G	43 kohms,1/6W	A A
R772～774	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
⚠R776	VRG-ST2EC680J	68 ohms,1/4W,Fusible	A B
R777,778	VRN-RT2CK182J	1.8 kohms,1/6W,Metal Film	A A
R779,780	VRN-RT2CK273J	27 kohms,1/6W,Metal Film	A A
R783,784	VRN-RT2CK122J	1.2 kohms,1/6W,Metal Film	A A
R785,786	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R787,788	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
R789	VRN-RT2CK392J	3.9 kohms,1/6W,Metal Film	A A
R790,791A	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R791,792	VRN-RT2CK104J	100 kohm,1/6W,Metal Film	A A
R793	VRD-ST2EE221J	220 ohms,1/4W	A A
R794	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R794A,B	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
R795	VRN-RT2CK182J	1.8 kohms,1/6W,Metal Film	A A
R796～798	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R799	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R801,802	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R803,804	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R805,806	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R807～810	VRN-RT2CK563J	56 kohms,1/6W,Metal Film	A A
R811,812	VRN-RT2CK561J	560 ohms,1/6W,Metal Film	A A
R813,814	VRN-RT2CK563J	56 kohms,1/6W,Metal Film	A A
R815～818	VRD-ST2EE102J	1 kohm,1/4W	A A
⚠R819,820	VRG-ST2HD4R7J	4.7 ohms,1/2W,Fusible	A B
R821	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R822	VRN-RT2CK224J	220 kohms,1/6W,Metal Film	A A
R823	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
⚠R824	VRG-ST2EC101J	100 ohm,1/4W,Fusible	A B
R825	VRD-ST2EE102J	1 kohm,1/4W	A A
R826	VRD-RT2HD102J	1 kohm,1/2W	A A
R830	VRN-RT2CK393J	39 kohms,1/6W,Metal Film	A A
⚠R831	VRG-ST2EC101J	100 ohm,1/4W,Fusible	A B
R832	VRN-RT2CK391J	390 ohms,1/6W,Metal Film	A A
R835,836	VRN-RT2CK154J	150 kohms,1/6W,Metal Film	A A
R883,884	VRD-RT2HD221J	220 ohms,1/2W	A A
R901	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R902	VRN-RT2CK392J	3.9 kohms,1/6W,Metal Film	A A
R904	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R905	VRN-RT2CK222J	2.2 kohms,1/6W,Metal Film	A A
⚠R906	VRG-ST2EC680J	68 ohms,1/4W,Fusible	A B
R907	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R908	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R910	VRN-RT2CK105J	1 Mohm,1/6W,Metal Film	A A
R911,912	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R913,914	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R915	VRN-RT2CK102J	1 kohm,1/6W,Metal Film	A A
R916	VRN-RT2CK332J	3.3 kohms,1/6W,Metal Film	A A
R917	VRN-RT2CK153J	15 kohms,1/6W,Metal Film	A A
R918～921	VRD-RT2HD681J	680 ohms,1/2W	A A
⚠R931,932	VRG-ST2HD1R0J	1 ohm,1/2W,Fusible	A B
⚠R933,A,B	VRG-ST2HD4R7J	4.7 ohms,1/2W,Fusible [H Only]	A B
R934	VRN-RT2CK103J	10 kohm,1/6W,Metal Film	A A
R935	VRD-RT2HD681J	680 ohms,1/2W	A A
R936	VRD-ST2EE332J	3.3 kohms,1/4W	A A
R937	VRD-RT2HD681J	680 ohms,1/2W	A A
R950	VRN-RT2CK472J	4.7 kohms,1/6W,Metal Film	A A
R951	VRN-RT2CK223J	22 kohms,1/6W,Metal Film	A A
R952	VRN-RT2CK473J	47 kohms,1/6W,Metal Film	A A
R960	VRD-ST2EE102J	1 kohm,1/4W	A A
⚠R980～984	VRG-ST2ED3R9J	3.9 ohms,1/4W,Fusible [H Only]	A B
⚠R986～988	VRG-ST2ED3R9J	3.9 ohms,1/4W,Fusible [H Only]	A B
⚠R990	VRG-ST2ED3R9J	3.9 ohms,1/4W,Fusible	A B
⚠R991	VRG-ST2ED3R9J	3.9 ohms,1/4W,Fusible [H Only]	A B
⚠R991A	VRG-ST2ED1R0J	1 ohm,1/4W,Fusible	A B
⚠R992,993	VRG-ST2ED1R0J	1 ohm,1/4W,Fusible	A B

OTHER CIRCUITRY PARTS

BI101/CNS101	————	Part of Ref. No.BI102/CNS162	A A
BI102/CNS162	QCNWN3556AFZZ	Connector Ass'y, 10-10-15-15Pin	A R
BI103A/B	QCNWN3605AFZZ	Connector Ass'y,7-7Pin	AG
BI104A/B	QCNWN3558AFZZ	Connector Ass'y,8-8Pin	AG
BI105A/B	QCNWN3359AFZZ	Connector Ass'y,10-10Pin	AH
BI106/CNS2	QCNWN2941AFZZ	Connector Ass'y,4—3Pin	A E

REF.NO.	PART NO.	DESCRIPTION	CODE
BI305	QCNWN2940AFZZ	Connector Ass'y,15—9—5 Pin	A M
BI400B	QCNWN2930AFZZ	Connector Ass'y,4—3Pin	A C
BI450A/B	QCNWN3577AFZZ	Connector Ass'y,4-4Pin	A G
BI571/CNS203	QCNWN3450AFZZ	Connector Ass'y,9-8Pin	A H
BI601/CNS202	QCNWN3459AFZZ	Connector Ass'y,3-3Pin	A G
BI602	QCNWN2950AFZZ	Connector Ass'y,3—3Pin	A C
BI801/802	QCNWN2931AFZZ	Connector Ass'y,4—2—5 Pin	A G
BI801A	QCNWN3456AFZZ	Connector Ass'y,10Pin	A H
BI803A/B	QCNWN3455AFZZ	Connector Ass'y,2-3-4Pin [H Only]	A F
BI901	QCNWN3454AFZZ	Connector Ass'y,5-4Pin	A F
BI902/CNS991	QCNWN3458AFZZ	Connector Ass'y,2-2Pin	A C
BI992/CNS1	QCNWN3457AFZZ	Connector Ass'y,5-5Pin	A E
CNP1	QCNCM705EAFZZ	Plug,5Pin	A B
CNP2	QCNCM688CAFZZ	Plug,3Pin	A B
CNP3	QCNCM688EAFZZ	Plug,5Pin	A B
CNP4	QCNCM688JAFZZ	Plug,9Pin	A C
CNP5	QCNCM705EAFZZ	Plug,5Pin	A B
CNP6	QCNCM705FAFZZ	Plug,6Pin	A B
CNP7	QCNCM687FAFZZ	Plug,6Pin	A B
CNP8	QCNCM687HAFZZ	Plug,8Pin	A B
CNP101	QCNCM705QAFZZ	Plug,15Pin	A C
CNP103	QCNCM705KAFZZ	Plug,10Pin	A C
CNP162	QCNCM705KAFZZ	Plug,10Pin	A C
CNP400	QCNCM683EAFZZ	Plug,5Pin	A A
CNP401	QCNCM583BAFZZ	Plug,2Pin	A A
CNP403	QCNCM683CAFZZ	Plug,3Pin	A A
CNP570	QCNCM692EAFZZ	Plug,5Pin	A B
CNP571	QCNCM692KAFZZ	Plug,10Pin	A C
CNP572	QCNCM692MAFZZ	Plug,12Pin	A D
CNP601	QCNCM705DAFZZ	Plug,4Pin	A B
CNP602	QCNCM705HAFZZ	Plug,8Pin	A B
CNP603	QCNCM705GAFZZ	Plug,7Pin	A B
CNP604	QCNCM705KAFZZ	Plug,10Pin	A C
CNP606	QCNCM705MAFZZ	Plug,12Pin	A C
CNP607	QCNCM705HAFZZ	Plug,8Pin	A B
CNP801	QCNCM705JAFZZ	Plug,9Pin	A C
CNP803	QCNCM704DAFZZ	Plug,4Pin [H Only]	A B
CNP901	QCNCM731FAFZZ	Plug,6Pin	AD
CNP902	QCNCM136CAFZZ	Plug,3Pin	A B
CNP903,904	QCNCM692EAFZZ	Plug,5Pin	A B
CNP990	QCNCM050BAFZZ	Plug,2Pin	A B
CNP991	QCNCM095BAFZZ	Plug,2Pin	A B
CNP992	QCNCM683DAFZZ	Plug,4Pin	A A
CNS1	————	Part of Ref. No.BI901	—
CNS3/4	————	Part of Ref. No.BI305	—
CNS5	QCNWN1805AFZZ	Connector Ass'y,5Pin	A D
CNS6	QCNWN1761AFZZ	Connector Ass'y,6Pin	A D
CNS7A/B	QCNWN1806AFZZ	Connector Ass'y,6-6/8-8 Pin	A P
CNS8A/B	————	Part of Ref. No.CNS7A/B	—
CNS103	QCNWN2944AFZZ	Connector Ass'y,10Pin	A G
CNS400	————	Part of Ref. No.BI801/802 [with LED 404A]	—
CNS401	QCNWN2222AFZZ	Connector Ass'y,2Pin	A F
CNS402	————	Part of Ref. No.BI602	—
CNS403	————	Part of Ref. No.BI400B	—
CNS570	QCNCW570EAFZZ	Connector Ass'y,5Pin	A C
CNS571	QCNCW570KAFZZ	Connector Ass'y,10Pin	A D
CNS572	QCNCW570MAFZZ	Connector Ass'y,12Pin	A D
CNS601	QCNWN2938AFZZ	Connector Ass'y,4Pin	A H
CNS602	QCNWN2939AFZZ	Connector Ass'y,8Pin	A M
CNS603	QCNWN2936AFZZ	Connector Ass'y,7Pin	A F
CNS604	QCNWN2937AFZZ	Connector Ass'y,10Pin	A G
CNS803	————	Part of Ref. No.BI803A/B [H Only]	—
⚠CNS901/902/990	————	Part of Ref. No.T900	—
CNS903,904	QCNCW570EAFZZ	Connector Ass'y,5Pin	A C
CNS992	————	Part of Ref. No.BI901	—
⚠F801,802	QFS-C312GAFNi	Fuse,T4A	A D
⚠F900	QFS-C801GAFNi	Fuse,T800mA,250V	A D
⚠F901	QFS-C162GAFNi	Fuse,T1.6A,250V	A D
⚠F902	QFS-C162GAFNi	Fuse,T1.6A,250V	A D
⚠F903	QFS-C501GAFNi	Fuse,T500mA,250V	A D
⚠F904	QFS-C501GAFNi	Fuse,T500mA,250V	A D
FE201	RTUNS0061AFZZ	Front End Unit	A X
FL101	VVK8ST03G//-1	Display Tube,CD	A Z
FL400	VVK6ST19ZK/-1	Display Tube,TAPE	A V
FL570	VVK8BT78ZK/-1	Display Tube,Tuner	A W
J801	QJAKJ0119AFZZ	Jack,Headphones	A F
JC201	QCNCM680DAFZZ	Socket,4Pin,Wire Trap	A C
JC202	QCNCM705CAFZZ	Socket,3Pin,Wire Trap	A A
JC203	QCNCM705HAFZZ	Socket,8Pin,Wire Trap	A B
JC400	QCNCM705CAFZZ	Socket,3Pin,Wire Trap	A A
JC401	QCNCM680FAFZZ	Socket,6Pin,Wire Trap	A C
JC402	QCNCM680CAFZZ	Socket,3Pin,Wire Trap	A B
JC404	QCNCW585CAFZZ	Socket,3Pin,Wire Trap	A B
JC602	QCNCM680CAFZZ	Socket,3Pin,Wire Trap	A B
JC603	QCNCM680GAFZZ	Socket,7Pin,Wire Trap	A C
JC605	QCNCM680JAFZZ	Socket,9Pin,Wire Trap	A D
JC609	QCNCM680CAFZZ	Socket,3Pin,Wire Trap	A B
JC901	QCNCM680HAFZZ	Socket,8Pin,Wire Trap	A D
JC902	QCNCW585EAFZZ	Connector,5Pin,Wire Trap	A C
JC903	QCNCW585GAFZZ	Connector,7Pin,Wire Trap	A C
LCD550	RV-LX0057AFZZ	LCD,Lebel Meter	A U
⚠M2	RMōTV0334AF00	Motor with Pulley,Slide	A Q
⚠M3	RMōTV0315AFZZ	Motor,Loading	A N
⚠M401	————	Part of Ref. No.VR404A	—
⚠M701	RMōTV0307AF02	Motor,Capstan	A S
⚠M702	RMōTV0305AF01	Motor Ass'y,Reel	A R
PL551	RLMPP0082AFZZ	Lamp	A D
PL555	RLMPP0082AFZZ	Lamp	A D
SO201	QTANC0401AFZZ	Socket,Antenna	A G
SO601,602	QSōCJ4257AFZZ	Socket [AUX/CD OUT]	A C
SOL701	RPLU-0223AFZZ	Solenoid,Fast Wind	A H
SOL702	RPLU-0222AFZZ	Solenoid,Selector	A H
SOL703	RPLU-0221AFZZ	Solenoid,Play	A H
SW1	QSW-P9209AFZZ	Switch,Push Type	A C
SW2	QSW-F0211AFZZ	Switch,Leaf Type	A D
SW100～106	QSW-K0173AFZZ	Switch,Key Type	A B
SW108～115	QSW-K0173AFZZ	Switch,Key Type	A B
SW116～121	QSW-K0172AFZZ	Switch,Key Type	A B
SW201	QSW-K0064AFZZ	Switch,Key Type [RESET]	A C
SW400	QSW-P0890AFZZ	Switch Push Type [X-BASS]	A G
SW401,402	QSW-K0050AFZZ	Switch,Key Type	A C
SW403～409	QSW-K0173AFZZ	Switch,Key Type	A B
SW411～414	QSW-K0172AFZZ	Switch,Key Type	A B
SW570～575	QSW-K0172AFZZ	Switch,Key Type	A B
SW601	QSW-S0191AFZZ	Switch,Slide Type [BEAT CANCEL]	A D
SW602,603	QSW-S0748AFZZ	Switch,Slide Type [REV/TIMER MODE]	A D
SW604～612	QSW-K0178AFZZ	Switch,Key Type	A B
SW613	QSW-S0535AFZZ	Switch,Slide Type [TAPE SELECTOR]	A E
SW701/706	QSW-M0151AFZZ	Switch,Leaf Type	A F
SW702/705	QSW-M0151AFZZ	Switch,Leaf Type	A F
SW703	QSW-F0302AFZZ	Switch,Leaf Type	A B
SW704	QSW-F0301AFZZ	Switch,Leaf Type	A C
SW707	QSW-F0175AFZZ	Switch,Leaf Type	A C
SW801A,B	QSW-P0892AFZZ	Switch Push Type [SURROUND/DOLBY NR]	A F
TE201	QTANN0172AFZZ	Terminal,GND	A B
TM801	QTANZ0463AFZZ	Terminal,Speaker	A H

REF.NO.	PART NO.	DESCRIPTION	CODE
TP201	QCNCM095BAFZZ	Plug,2Pin [Test Point]	A B
TP601	QCNCM136CAFZZ	Plug,3Pin [Test Point]	A B
UNT402	RRMCU0063AFZZ	Receiver,Remote Control	A L

TAPE MECHANISM PARTS

REF.NO.	PART NO.	DESCRIPTION	CODE
1	LANGF1071AFFW	Bracket,Idler Prevention Interlocking	A B
2	LANGF1072AFZZ	Bracket,Reel Motor	A D
3	LANGF1178AFFW	Bracket,Flywheel	A F
6	LBSHZ0087AFZZ	Rubber,Lead Disposition	A A
7	LBSHZ0095AFZZ	Rubber,Lead Retaining	A A
8	LBSHZ0096AFZZ	Cushion Rubber	A A
9	LCHSM0694AFZZ	Chassis	A K
10	LCHSS0272AFZZ	Head Plate	A D
11	LDAiH0096AFZZ	Head Base	A K
15	LPLTM0203AFZZ	Plate,Head Install,Tape1	A D
16	LPLTM0225AFZZ	Plate,Head Install,Tape2	A D
17	LRTNP0058AFZZ	Stopper	A A
18	LRTNP0060AFZZ	Stopper	A A
19	LRTNP0063AFZZ	Stopper,ϕ3mm	A A
20	LRTNP0064AFZZ	Stopper,ϕ2mm	A A
21	MCAMP0082AF00	Pad Cam	A C
22	MCAMP0083AF00	Change Cam	A C
23	MLEVF2173AFZZ	Lever Ass'y,Over Stroke	A C
26	MLEVF1971AFZZ	Lever,Reverse Change	A C
27	MLEVF1972AFFW	Lever,Pinch Roller Change	A B
28	MLEVF1973AFFW	Lever,Cam Active	A B
29	MLEVF1974AFZZ	Lever,Change Cam Select	A B
30	MLEVF2167AFZZ	Lever	A C
31	MLEVF2166AFZZ	Idler Prevention Lever, Right	A C
32	MLEVF2176AFZZ	Lever,Switch Release	A D
33	MLEVF1978AFFW	Reverse Active Lever	A B
34	MLEVF2159AFFW	Lever,Cassette Press	A B
35	MSPRP0539AFFW	Spring,Cassette Press	A A
36	MLEVF2168AFFW	Lever,Eject Prevention	A B
38	MLEVF1983AFFW	Lever,Holder Eject	A B
40	MLEVP0724AFZZ	Play Lock Lever	A C
41	MLEVP0725AFZZ	Lever,Reverse Prevention, Left	A A
42	MLEVP0726AFZZ	Lever,Reverse Prevention, Right	A A
43	MLEVP0727AFZZ	Tape Guide,Tape 2,Left	A B
44	MLEVP0728AFZZ	Tape Guide,Tape 2,Right	A B
45	MLEVP0729AFZZ	Tape Guide,Tape 1	A B
46	MLEVP0730AFZZ	Switch Lever	A B
47	MLEVP0731AFZZ	Switch Lever	A B
48	MLEVP0732AF00	Lever,Brake	A B
49	MLEVP0733AF00	Shift Lever	A B
50	MSPRC0579AFFJ	Spring,Azimuth	A A
52	MSPRC0657AFFJ	Spring,Tape Guide	A A
53	MSPRC0658AFFJ	Spring,Cam Active Lever	A A
54	MSPRC0659AFFJ	Spring,Back Tension	A A
55	MSPRC0660AFFJ	Spring,Reel	A A
56	MSPRC0661AFFJ	Spring,Gear Lever	A A
57	MSPRD0815AFFJ	Spring,Head	A A
58	MSPRD0816AFFJ	Spring,Brake	A A
59	MSPRD0969AFFJ	Spring	A A
60	MSPRD0823AFFJ	Spring,Tape 2 Idler Lever	A A
61	MSPRD0821AFFJ	Spring,Tape 1 Idler Lever, Right	A A
62	MSPRD0822AFFJ	Spring,Tape 2 Idler Lever, Left	A A
63	MSPRD0820AFFJ	Spring,Tape 1 Idler Lever, Left	A A
64	MSPRD0824AFFJ	Spring,Pinch Roller,Left	A A
65	MSPRD0825AFFJ	Spring,Pinch Roller,Right	A A
68	MSPRD0967AFFJ	Spring,Pinch Roller, Selection Lever,Left	A A
69	MSPRD0968AFFJ	Spring,Pinch Roller, Selection Lever,Right	A A
70	MSPRD0994AFFJ	Spring,Head	A B
72	MSPRD0832AFFJ	Spring,Change Cam	A A
75	MSPRD1009AFFJ	Spring,Cassette Press	A A
78	MSPRP0474AFFW	Spring,Head Plate Press	A A
79	MSPRT1265AFFJ	Spring,Over Stroke	A A
80	MSPRT1266AFFJ	Spring,Over Stroke	A A
82	MSPRT1307AFFJ	Spring,Eject Lever	A A
83	MSPRT1270AFFJ	Spring,Play Lock Lever	A A
84	MSPRT1271AFFJ	Spring,Reverse Change Lever	A A
85	MSPRT1272AFFJ	Spring,Pinch Roller Change Lever	A A
86	MSPRT1273AFFJ	Spring,Reverse Active Lever	A A
87	MSPRT1279AFFJ	Spring,Switch Release	A A
88	NBALS0006AGFJ	Steel Ball,ϕ2mm	A A
89	NBLTH0116AFZZ	Belt,Flywheel	A C
90	NBLTK0471AF00	Belt,Take-Up Reel	A B
91	NBRGC0207AFZZ	Capstan Metal,Forward	A A
92	NDAiR0208AFZZ	Cap,Take-up	A A
93	NDAiR0211AFZZ	Reel Cap,Tape 1	A C
94	NDAiR0310AFZZ	Fast Forward,Reel	A E
95	NDAiR0308AFZZ	Take-up Reel	A D
96	NDAiR0309AFZZ	Slip Roller	A E
97	NDAiR0215AFZZ	Reel Cap Cover,Tape 1	A C
98	NFLYC0144AF01	Flywheel	A G
99	NGERH0190AF00	Gear,Headh	A A
100	NGERH0227AFZZ	Gear Lever	A E
101	NiDR-0151AFZZ	Tape 2 Idler Lever,Left	A D
102	NiDR-0095AFZZ	Tape 1 Idler Lever,Right	A D
103	NiDR-0152AFZZ	Tape 2 Idler Lever,Left	A D
104	NiDR-0094AFZZ	Tape 1 Idler Lever,Left	A D
105	NPLYR0130AFZZ	Center Pulley	A C
106	NPLYR0132AFZZ	Center Pulley	A A
108	NRōLY0086AFZZ	Pinch Roller,Tape 1,Left	A E
109	NRōLY0087AFZZ	Pinch Roller,Tape 1,Right	A E
110	NRōLY0125AFZZ	Pinch Roller,Tape 2,Left	A E
111	NRōLY0089AFZZ	Pinch Roller,Tape 2,Right	A E
112	NSFTM0147AFFJ	Shaft,Switch Lever	A A
113	NSFTM0148AFFJ	Shaft,Switch Lever	A C
116	PCōVP3202AFFW	Cover	A C
117	PCōVS3152AFFW	Shield Plate	A B
118	RHEDF0122AFZZ	Head,Playback	A Q
120	RHEDK0071AFZZ	Head,Record/Playback	A S
123	LHLDZ1338AFZZ	Holder,Photo-interruptor	A B
124	NDAiR0307AFZZ	Supply Reel	A D
501	LX-BZ0328AFFD	Screw,ϕ2.6×2.6mm	A A
502	LX-BZ0658AFZZ	Screw,ϕ2×6mm	A A
503	LX-BZ0450AFZZ	Screw,ϕ2×6mm	A A
504	LX-BZ0518AFZZ	Screw,ϕ1.7×1.8mm	A A
505	LX-BZ0609AFZZ	Screw,ϕ2×1.7mm	A A
506	LX-BZ0610AFZZ	Screw,ϕ2×3.8mm	A A
507	LX-BZ0611AFZZ	Screw,ϕ2×4mm	A A
509	LX-BZ0614AFZZ	Screw,ϕ1.7×3.5mm	A A
510	LX-BZ0615AFZZ	Screw,ϕ1.7×5.5mm	A A
511	LX-WZ1107AFZZ	Washer,ϕ3.5×ϕ5×0.25mm	A A
512	LX-WZ1135AFZZ	Washer,ϕ1.6×ϕ5.9×0.5mm	A A
513	LX-WZ1139AFZZ	Washer,ϕ5.1×ϕ7×0.13mm	A A
514	LX-WZ9053AFZZ	Washer,ϕ2.4×ϕ5×0.5mm	A A
515	LX-WZ9063AFZZ	Washer,ϕ1.2×ϕ4×0.5mm	A A
517	XBPSD14P05500	Screw,ϕ1.4×5.5mm	A A
518	XSPSN17P07000	Screw,ϕ1.7×7mm	A A
520	XBPSD20P04J00	Screw,ϕ2×4mm	A A
521	XHPSD20P05000	Screw,ϕ2×5mm	A A
522	XHBSD20P04000	Screw,ϕ3×4mm	A A
523	XJBSD20P06000	Screw,ϕ2×6mm	A A
524	XJBSD26P08000	Screw,ϕ2.6×8mm	A A
525	XNESD20-16000	Nut,ϕ2×1.6mm	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
526	XREUJ20-04000	Ring,E-Type,ϕ2×0.4mm	A A
527	XREUJ25-04000	Ring,"E"Type,ϕ2.5×0.4mm	A A
528	XREUJ30-06000	Ring,E-Type,ϕ3×0.6mm	A A
529	XWHJZ17-02540	Washer,ϕ1.7×ϕ4×0.25mm	A A
531	XWHJZ26-01347	Washer,ϕ2.6×ϕ4.7×0.13mm	A A
533	XWHSD20-03043	Washer,ϕ2×ϕ4.3×0.3mm	A A
541	XHBSD20P05000	Screw,ϕ2×5mm	A A
544	XWHJZ26-02547	Washer,ϕ2.6×ϕ4.7×0.25mm	A A

CD MECHANISM PARTS

401	LANGG0170AFZZ	Bracket,Pick-up Retaining	A B
402	KRPLE0014AF01	Mechanism Ass'y	B A
402-1	————	Mechanism Chassis [with Spin Motor]	—
402-2	LHLDW1075AFZZ	Nylon Band,60mm	A A
402-3	NBLTH0117AFZZ	Drive Belt,Picup	A B
402-4	XAPSD20P02500	Screw,ϕ2×2.5mm	A A
⚠ M1	————	Spin Motor Part of Ref. No.402	—
⚠ M2	RMŌTV0334AF00	Slide Motor,with Pulley	A Q
SW1	QSW-P9209AFZZ	Switch,Push Type	A C
CNS6	QCNWN1761AFZZ	Connector Ass'y,6Pin	A D
404	NSFTM0164AFFW	Guide Rail	A D
⚠ 405	RCTRH8112AFZZ	Pick-up Unit	B P
406	LX-HZ0173AFFD	Screw,ϕ6.5×6mm	A A
407	XBPSD26P06000	Screw,ϕ2.6×6mm	A A
408	XHPSD20P04000	Screw,ϕ2×4mm	A A

CABINET PARTS

201	CPNLC2080AF01	Front Panel Ass'y	B F
201- 1	HBDGB1065AFSA	Badge,SHARP	A D
201- 2	HDECP0823AFSB	Decoration Plate,Timer	A E
201- 3	HDECP0855AFSA	Decoration Plate,Tuner	A M
201- 4	HDECP0824AFSA	Decoration Plate,Level Meter	A L
201- 5	HDECZ0151AFSA	Decoration Leg	A C
201- 6	————	Panel,Front	—
201- 7	JKNBZ0615AFSA	Button,Eject	A C
201- 8	JKNBZ0689AFSA	Button,Timer	A B
201- 9	JKNBZ0763AFSA	Button,Tape Cauntor	A B
201-10	JKNBZ0764AFSA	Button,CD Control	A D
201-11	JKNBZ0765AFSA	Button,CD/Deck Control	A C
201-12	JKNBZ0766AFSA	Button,Deck Operation	A B
201-13	JKNBZ0789AFSA	Button,Deck Control	A D
201-14	JKNBZ0911AFSA	Button,Function	A D
201-15	JKNBZ0912AFSA	Button,Tuner Control	A D
201-16	JKNBZ0913AFSA	Button,CD Program	A D
201-17	PCŌVU9204AF00	Cover,Button Selector	A B
201-18	PGiDi0052AFZZ	Guide,Timer Guid	A B
201-19	PSHEP0218AFZZ	Sheet,Cassette Eject Button	A B
201-20	PSPAG0209AF00	Spacer,Timer Button	A A
201-21	PFLT-0909AFZZ	Felt,Front Panel	A B
202	GCŌVA1831AFSC	Disc Holder	A H
203	GDŌRT0053AFSA	Door,CD	A R
204	GFTAC1628AFSA	Cassette Holder	A G
205	GFTAR3159AFSA	Back Plate [For H]	A P
205	GFTAR3160AFSA	Back Plate [For E]	A P
206	GFTAU3153AFZZ	Plate,Bottom	A G
207	GiTAS0101AFSA	Cabinet,Left Side	A K
208	GiTAS0102AFSA	Cabinet,Right Side	A K
209	GiTAT0054AFSA	Cabinet,Top	A U
210	HDECP0873AFSA	Decoration Plate,CD	A M
211	HDECP0856AFSA	Decoration Plate,Cassette [For H]	A Q
211	HDECP0857AFSA	Decoration Plate,Cassette [For E]	A Q
212	JHNDP1103AFSA	Handle	A F
213	JKNBK0417AFSB	Knob,Volume [with CNS401/LED404A]	A M
214	JKNBM0547AFSA	Button [Dolby]	A D
215	JKNBM0743AFSB	Knob [X-BASS]	A B
216	JKNBM0860AFSC	Knob [Tape Selector]	A B
217	JKNBM0862AFSA	Button [POWER]	A B
218	LANGA0128AFZZ	Bracket,CD Door	A A
219	LANGF1079AFFF	Bracket,Cassette Compartment	A C
220	LANGF1095AFFW	Bracket,Damper	A B
221	LANGF1112AFZZ	Bracket,Lever	A B
222	LANGF1168AFZZ	Bracket,Handle	A E
223	LANGF1198AFZZ	Bracket,Cassette Eject	A C
224	LANGK0607AFZZ	Bracket,IC	A B
225	LANGT1575AFZZ	Bracket,Mechanism	A E
226	LANGT1610AFZZ	Bracket,Transistors	A B
227	LANGT1611AFZZ	Bracket,Tuner PWB	A B
228	LANGT1616AFZZ	Bracket,Mechanism	A B
229	LANGT1672AFZZ	Bracket,Power Switch	A C
230	LANGT1704AFZZ	Bracket,CD Unit	AK
⚠231	LBSHC0064AFZZ	Bushing,AC Power Supply Cord	A B
232	LCHSM0689AFZZ	Chassis,Main	A L
233	LCHSM0718AFZZ	Chassis,Loading	A K
234	LHLDA1091AFZZ	Holder,Antenna	A B
236	LHLDW1068AFZZ	Nylon Band,100mm	A A
237	LHLDW1075AFZZ	Nylon Band,60mm	A A
238	LHLDW1141AF00	Wire Holder	A A
239	LHLDW3056AFZZ	Wire Holder	A A
240	LHLDZ1337AFSA	Rail Holder	A G
241	LHLDZ1382AFZZ	Holder,Screw	A A
242	LHLDZ3106AFZZ	Holder,CD Display	A D
243	LHLDZ3107AFZZ	Holder,Tuner Display	A B
244	LHLDZ3108AFZZ	Holder,Timer Display	A B
246	LHLDZ9138AFZZ	Holder,LED	A B
247	LRALP0082AFSA	Rail,Left	A C
248	LRALP0083AFSA	Rail,Right	A C
249	MARMP0041AF00	Arm,Cassette Holder	A E
250	MLEVF2213AFZZ	Lever,Cassette Eject	A C
251	MLEVP0772AFZZ	Lever,Lock	A C
252	MLEVP0773AFZZ	Disc Arm	A D
253	MLEVP0795AFSA	Button,Cassette Eject	A E
254	MLEVP0796AFSA	Lever,Speaker Lock	A D
255	MLEVP0854AFSA	Lever,Disc	A D
256	MLEVP0855AFSA	Lever,Disc	A C
257	MLiFP0059AFZZ	Damper	A G
258	MLŌKC0083AFSA	Lock Lever,CD,Left	A C
259	MLŌKC0084AFSA	Lock Lever,CD,Right	A C
260	MSPRD1000AFFJ	Spring,CD Up,Left	A B
261	MSPRD1002AFFJ	Spring,CD Up,Right	A B
262	MSPRP0473AFFJ	Spring,Cassette Holder, Left	A B
263	MSPRP0475AFFJ	Spring,Cassette Holder, Right	A B
264	MSPRT1276AFFJ	Spring,Cassette Up	A A
265	MSPRT1319AFFJ	Spring,Cassette Holder	A A
266	MSPRT1320AFFJ	Spring,Eject	A A
267	MSPRT1322AFFJ	Spring,Disc Arm	A A
268	MSPRT1393AFFJ	Spring,Disc	A A
269	NBLTK0349AFZZ	Belt,Open/Close	A B
270	NGERH0202AFZZ	Gear,Disc Open/Close	A B
271	NGERR0017AFZZ	Gear,Rack	A D
272	NPLYM0101AFZZ	Pullery,Disc	A B
274	PCASZ0063AFSA	Adaptor,Tape	A E
275	PCŌVZ1104AFZZ	Cover,Disc Retainer	A C
276	PCŌVZ1105AFZZ	Cover,Weight	A B
277	PCUSF0043AFZZ	Cushion,Weight Cover	A B
278	PCUSG0185AF00	Cushion,CD Door	A B
279	PCUSG0273AFSA	Gum,Arm Cushion	A A
280	PCUSG0344AFSA	Cushion,Mechanism	A C

REF.NO.	PART NO.	DESCRIPTION	CODE
281	PCUSS0371AFZZ	Disc Retainer,Top	A B
282	PCUSS0415AFZZ	Cushion	A A
283	PFLT-0488AFZZ	Felt,Leg	A A
284	PMAGF0051AFZZ	Magnet	A E
285	PRDAR0432AFFW	Heat Sink,Q905,Q906	A D
286	PRDAR0599AFFW	Heat Sink	A R
287	PSHEG0160AFZZ	Sheet,Heat Sink	A E
288	PSLDM3507AFFW	Shield Plate	A B
290	PSPAN0082AFZZ	Spacer,P.W.B	A C
291	PSPAN0083AFZZ	Spacer,P.W.B	A C
292	PSPAZ0326AF00	Spacer,Top Cabinet	A A
⚠293	QACCB0059AF09	AC Power Supply Cord [For E]	A K
⚠293	QACCV0001AGZZ	AC Power Supply Cord [For H]	AH
⚠294	QFSHD2104AFZZ	Fuse Holder	A F
295	PRDAR0268AFZZ	Heat Sing,Diode	A A
296	PSPAZ0333AF00	Spacer,Lock Lever	A A
297	PGUMS0581AFZZ	Gum,8×8×2mm	A A
298	QTANN0172AFZZ	Terminal,GND	A B
299	LANGF1209AFZZ	Bracket,Top Cabinet	A B
301	PCUSU0408AFZZ	Cushion,Disc Arm	A B
302	LHLDZ9139AFZZ	Holder,LED	A A
303	PSLDM3542AFZZ	Shield Plate	A C
304	PSHEK0159AFZZ	Sheet	A D
305	PSPAZ0336AF00	Spacer,Film	A A
306	GCŌVH3201AFZZ	Panchig,Metal,Heat Sink	A L
307	HDECP0712AFSB	Decoration Plate Meter	A F
308	LANGF1237AFZZ	Bracket,CD Door	AB
309	PSPAS0192AFZZ	Push Rivet	A A
310	PGUMS0584AF09	Gum,6×15×4mm	A A
311	PSPAN0154AFZZ	Spacer,PWB [H Only]	AA
312	PSPAS0191AFZZ	Spacer,PWB	A B
313	TLABS0336AFZZ	Label,Laser Class 1	A B
314	RCŌRF0081AFZZ	Core,AC Power Supply Cord [H Only]	A D
315	RCŌRF0063AFZZ	Core [H Only]	A E
316	PCŌVW9202AFZZ	Cover,PWB	A F
317	PSPAV0087AFZZ	Spacer,Antenna Socket	A B
318	PSHEM0106AFZZ	Cover,Front End Unit [H Only]	AB
⚠319	QLUGP0165AFZZ	Lug,Cord	A A
320	PSHEM0105AFZZ	Sheet,Socket [H Only]	AB
321	LHLDZ1385AFZZ	Holder,LCD,Left	A D
322	LHLDZ1386AFZZ	Holder,LCD,Right	A D
323	TLABS0258AFZZ	Label,Laser [For H]	A B
323	TLABS0326AFZZ	Label,Laser [For E]	A B
324	TCAUZ0258AFZZ	Label,Disc Holder	AB
325	PCŌVW9203AFZZ	Cover,Power PWB	AC
602	LX-HZ0105AFFF	Screw,ϕ3×6mm	A B
603	LX-HZ0170AFFD	Screw,	A A
604	LX-HZ0193AFFF	Screw,ϕ2.6×8mm	A A
605	LX-HZ0197AFSA	Screw,ϕ4×35mm	A C
606	LX-JZ0009AFFF	Screw,ϕ3×10mm	A A
607	LX-JZ0010AFFD	Screw,ϕ3×10mm	A A
608	LX-JZ0022AFFD	Screw,ϕ3×10mm	A A
609	LX-JZ0033AFFF	Screw,ϕ3×8mm	A A
610	LX-LZ0051AF00	Push Rivet	A A
611	LX-LZ0055AF00	Push Rivet	A A
612	LX-LZ0086AFZZ	Push Rivet	A B
613	LX-LZ0092AF00	Push Rivet	A A
614	XBPSD26P05JS0	Screw,ϕ2.6×5mm	A A
615	XBPSF26P06J00	Screw,ϕ2.6×6mm	A A
616	XHBSD30P06000	Screw,ϕ3×6mm	A A
617	XHBSD30P08000	Screw,ϕ3×8mm	A A
618	XHBSD30P10000	Screw,ϕ3×10mm	A A
619	XHBSF40P10000	Screw,ϕ4×10mm	A A
620	XHBS330P06000	Screw,ϕ3×6mm	A A
621	XHPSF26P10000	Screw,ϕ2.6×10mm	A A
622	XHSSF30P06000	Screw,ϕ3×6mm	A A
623	XJBSD26P06000	Screw,ϕ2.6×6mm	A A
624	XJBSD30P08000	Screw,ϕ3×8mm	A A
625	XJBSF30P08000	Screw,ϕ3×8mm	A A
626	XJBS330P10000	Screw,ϕ3×10mm	A A
627	XJPSF26P16000	Screw,ϕ2.6×16mm	A A
628	XJSSD30P10000	Screw,ϕ3×10mm	A A
629	XEBSD30P10000	Screw,ϕ3×10mm	A A
630	XEBSD30P08000	Screw,ϕ3×8mm	A A
631	XHBSF30P06000	Screw,ϕ3×6mm	A A
632	XEBSD30P14000	Screw,ϕ3×4mm	A A
633	XTBSF30P12000	Screw,ϕ3×12mm	A A
634	XWHSD32-10160	Washer,ϕ3.2Xϕ6X1mm	A A
635	LX-WZ7085AFZZ	Washer,ϕ2.4mm	AA
636	LX-HZ0051AFFD	Screw,Tuner PWB	A A
637	LX-JZ0047AFFD	Screw,Diode	A B
638	XHBSF40P08000	Screw,ϕ4×8mm	A A
639	LX-LZ0104AF00	Push,Rivet	AA

SPEAKER BOX PARTS

701	97HX17BŌX-L	Speaker Box,Left	B D
701	97HX17BŌX-R	Speaker Box,Right	B D
702	97HX17REAR-P	Panel,Rear	A U
703	97HX17FRNT-P	Panel,Front	A U
704	97HX17P-ASSY	Panching Metal Ass'y	A V
705	97HX10ASHi	Felt,Leg	A D
706	97HX10KANAGU	Bracket	A Q
707	97HX17ABSŌB	Cushion,Accustic	A K
708	97HX10R3A	Screw,ϕ3×14mm	A A
709	97HX10R3D	Screw,ϕ3×12mm	A A
710	97HL800NEJi5	Screw,5mm	A B
711	97HX17ELABEL	Label,Specifications [For E]	A B
711	97HX17HLABEL	Label,Specifications [For H]	A B
712	97HCCK3LABEL	Label,Made in TAIWAN	A A
C1	97HX17CA1R8-50	Capacitor,1.8 μF,50V,Non-polar	A F
L1	97HX17LŌR24MH	Coil,0.24 mH	A M
L2	97HL700LŌR33MH	Coil,0.33 mH	A L
SP1,2	97H52FT511-3	Tweeter	A Q
SP3,4	97H120F524L-3	Woofer	A Z
SP5,6	97H120DT80129A	Passive Radiator	A Q
TM1	97HX10TANSHi	Terminal,Speaker	A K

CD-X17H/E ACCESSORIES/PACKING PARTS

QANTL0109AFZZ	Loop Antenna	A H
QANTW0104AFZZ	FM Antenna	A F
RRMCG0147AFSA	Remote Control Unit	A Y
SPAKA1915AFZZ	Packing Add.,Left	A F
SPAKA1916AFZZ	Packing Add.,Right	A F
SPAKC4981AFZZ	Packing Case [For H]	A K
SPAKC4982AFZZ	Packing Case [For E]	A L
SPAKP0856AFZZ	Polyethylene Bag,Unit	A D
SPAKX2274AFZZ	Pad,Back	A G
SSAKA0024AFZZ	Polyethylene Bag, Accessories	A A
TGANE1117AFZZ	Warranty Card [For E]	A B
TGANG1054AFZZ	Warranty Card [For H]	A A
TiNSE1431AFZZ	Operation Manual [For E]	A P
TiNSZ1120AFZZ	Operation Manual [For H]	A L

CP-X17H/E ACCESSORIES/PACKING PARTS

TLABZ1336AFZZ	Label,Feature	A F
97HX10CŌRD-BAG	Polyethylene Bag,Speaker Cord	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
	97HX10P-MAT	Mat,Protection	A E
	97HX10SP-CORD	Speaker Cord	A K
	97HX10U-BAG	Polyethylene Bag,Speaker Box	A A
	97HX17EP-CASE	Packing Case [For E]	A P
	97HX17HP-CASE	Packing Case [For H]	A P
	97HX17P-ADO	Packing Add.	A L

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A	DCEKS0046AF06	CD	—
PWB-B1~8	DCEKL0316AF03	Amp/Timer/Graphic Eq./ Level Meter/Volume/ Headphone/Regulator/ Power Switch [For H] (Combined Ass'y)	—
PWB-B1~8	DCEKL0316AF06	Amp/Timer/Graphic Eq./ Level Meter/Volume/ Headphone/Regulator/ Power Switch [For E] (Combined Ass'y)	—
PWB-C	DCEKR0372AF03	Tuner [For H]	—
PWB-C	DCEKR0372AF06	Tuner [For E]	—
PWB-D1~7	DCEKU0230AF03	Main/Deck/CD Display/ CD Operation Switch/ Connector [For H] (Combined Ass'y)	—
PWB-D1~7	DCEKU0230AF06	Main/Deck/CD Display/CD Operation Switch/Connector [For E] (Combined Ass'y)	—
PWB-E1,2	DUNTZ0570AF15	Mechanism/Motor Control (Combined Ass'y)	—
PWB-F1~5	DCEKN0040AF03	Tuner Control/Tuner Switch/Speaker/Power/ Fuse [For H] (Combined Ass'y)	—
PWB-F1,2,4,5	DCEKN0040AF06	Tuner Control/Tuner Switch/Power/Fuse [For E] (Combined Ass'y)	—

A8808-8245NK·IS·J

Printed in Japan
In Japan gedruckt
Imprimé au Japon
SG·SS·SK

Writer and Editor: Quality & Reliability Control Center of Audio Systems Group, Sharp Corp.